12 - STRUCTURAL

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DESIGNED BY:

Baker

MICHAEL BAKER ENGINEERING, INC.
500 ENTERPRISE DRIVE
SUITE 2B
ROCKY HILL, CT 06067

STATE OF CONNECTICUT — REGISTERED PROFESSIONAL ENGINEER

Ray Whitbread
2014.02.03
14:52:13-05'00'

DESIGNED BY:

TranSystems

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

STATE OF CONNECTICUT — No. 19778 — LICENSED PROFESSIONAL ENGINEER

David Stahnke
2014.01.28
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..STI...001.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT — No. 19778 — LICENSED PROFESSIONAL ENGINEER

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: DRAWING INDEX

PROJECT NO. 170-3155
DRAWING NO. STI-001
SHEET NO. 04.12.001

Connecticut Department of Transportation
QA/QC Format Check

DESIGN CRITERIA

DC-1 BUILDING CODES AND SPECIFICATIONS:

A. CONNECTICUT STATE BUILDING CODE, 2005, WITH 2009 AMENDMENT
B. INTERNATIONAL CODE COUNCIL (ICC), 2003 INTERNATIONAL BUILDING CODE
C. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-02
D. STATE OF CONNECTICUT DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, 2004
E. AMTRAK STANDARD TRACK PLAN FOR MINIMUM ROADWAY CLEARANCE, AM 70050-G
F. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
   1. ALLOWABLE STEEL DESIGN, THIRTEENTH EDITION
   2. AISC-341 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
   3. AISC SPECIFICATIONS FOR THE DESIGN OF STEEL HOLLOW STRUCTURAL SECTIONS, APRIL 1997
G. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-08
H. AMERICAN WELDING SOCIETY (AWS)
   1. STRUCTURAL WELDING CODE AWS D1.1
   2. STRUCTURAL WELDING CODE AWS D1.8

DC-2 DESIGN LOADS CRITERIA:

A. LIVE LOADS

1. ROOF	30 PSF MINIMUM
2. PLATFORM	150 PSF
3. STAIRS, RAMPS & LANDINGS	100 PSF
4. FLOOR & PEDESTRIAN BRIDGE	100 PSF

B. SNOW LOADS

1. GROUND SNOW LOAD (Pg)	30 PSF
2. ROOF SNOW LOAD(Pf)	30 PSF (CONNECTICUT MIN.)
3. SNOW IMPORTANCE FACTOR (Is)	1.0
4. SNOW EXPOSURE FACTOR (Ce)	0.9

C. CONSTRUCTION LOADS (NOT TO EXCEED DESIGN LIVE LOADS)

D. WIND DESIGN CRITERIA

1. BASIC WIND SPEED FOR 3 SEC GUSTS(V)	105 MPH
2. WIND IMPORTANCE FACTOR (Iw)	1.0
3. EXPOSURE CATEGORY	C

E. SEISMIC DESIGN CRITERIA

1. SEISMIC IMPORTANCE FACTOR (Ie)	1.0
2. SITE CLASS D (E USED FOR DESIGN)	
3. MAPPED SPECTRAL RESPONSE ACCELATION, SHORT PERIOD (Ss)	0.280
4. MAPPED SPECTRAL RESPONSE ACCELATION AT 1 SECOND (S1)	0.084
5. SPECTRAL RESPONSE COEFFICIENT AT SHORT PERIOD (Sds)	0.294
6. SPECTRAL RESPONSE COEFFICIENT AT 1 SECOND (Sd1)	0.134
7. SEISMIC DESIGN CATEGORY	C
8. BASIC SEISMIC FORCE RESISTING SYSTEM - STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	
9. DESIGN BASE SHEAR	22 KIPS
10. SEISMIC RESPONSE COEFFICIENT (Cs)	0.088
11. RESPONSE MODIFICATION FACTOR (R)	3.5
12. ANALYSIS PROCEDURE USED IS EQUIVALENT LATERAL FORCE PROCEDURE	

F. FLOOD LOAD - NOT APPLICABLE

DC-3 FOUNDATION DESIGN CRITERIA:

A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOIL PARAMETERS:
   1. NET ALLOWABLE SOIL BEARING PRESSURE:
      A. SPREAD OR CONTINUOUS FOOTINGS 5000 PSF

B. LATERAL EARTH PRESSURE PARAMETERS:

1. SOIL DENSITY	130 PCF
2. COEFFICIENT OF ACTIVE PRESSURE (Ka)	0.26
3. COEFFICIENT OF AT-REST PRESSURE (Ko)	0.41
4. COEFFICIENT OF PASSIVE EARTH PRESSURE (Kp)	3.85
5. ANGLE OF INTERNAL FRICTION (phi)	36 DEGREES
6. COEFFICIENT OF FRICTION	0.45
7. MODULUS OF SUB-GRADE REACTION (ks)	200 PCI

C. FROST DEPTH 42" (CONNECTICUT MIN.)

DC-4 MATERIALS:

THE FOLLOWING ASTM DESIGN STANDARDS AND STRESSES SHALL BE THE APPROPRIATE MATERIALS USED FOR THIS PROJECT:

A. CEMENT: ASTM C150 TYPE I OR III
   ASTM C150 TYPE II (CONCRETE IN CONTACT WITH EARTH)
B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS FOR NORMAL WEIGHT CONCRETE, UON:
   1. FOOTINGS, WALLS, PIERS & SLABS 4000 PSI
   2. PRECAST MEMBERS 5000 PSI
C. NON-SHRINK LEVELING GROUT ASTM C1107, f'c= 5000 PSI AT 28 DAYS
D. REINFORCEMENT:
   1. DEFORMED BARS ASTM A615, GRADE 60
   2. WELDED WIRE FABRIC ASTM A884
   3. EPOXY COATED BARS ASTM A775
E. STEEL:

1. STRUCTURAL STEEL WIDE FLANGE & T-SECTIONS	ASTM A992
2. STRUCTURAL ANGLES, CHANNELS AND PLATES	ASTM A36
3. BASE PLATES	ASTM A572, GRADE 50
4. HOLLOW STRUCTURAL SECTIONS	ASTM A500, GRADE B
5. STRUCTURAL STEEL PIPE	ASTM A53, GRADE B
6. HIGH STRENGTH BOLTS	ASTM A325-N OR -TC
7. ANCHOR RODS	ASTM F1554, GRADE 55
8. HEADED SHEAR STUD	ASTM A108 TYPE B
9. WELDING ELECTRODE	AWS A5.1 OR A5.5 E70XX
10. STEEL DECK AND METAL STUDS	ASTM A653

GENERAL

G-1 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND IMPLEMENTING THE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

G-2 TEMPORARY BRACING, SHEETING, SHORING, ETC, REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY/STABILITY OF THE EXISTING BUILDINGS, SIDEWALKS, UTILITIES, ETC, DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR.

G-3 IMPLEMENTATION OF JOB SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

G-4 SLEEVES OR BLOCK-OUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC, IN ADDITION TO ANCHORS AND HANGERS REQUIRED FOR EQUIPMENT AND PIPING AND UNDER-SLAB UTILITIES ARE NOT SPECIFICALLY, NOR GENERALLY, INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUCH REQUIREMENTS PRIOR TO FABRICATION OR ERECTION OF THE STRUCTURE. PENETRATIONS ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.

G-5 DIMENSIONS AND INSTALLATION DETAILS OF PURCHASED EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH THE SUPPORTING STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUCH REQUIREMENTS FROM SUBCONTRACTORS AND EQUIPMENT SUPPLIERS ALONG WITH COORDINATING THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR ERECTION OF THE SUPPORTING STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE IS TO BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD FOR RESOLUTION.

G-6 THE CONTRACTOR IS TO REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT PROVIDED.

G-7 WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATIONS, IS TO BE REPEATED.

G-8 EXISTING BUILDING INFORMATION SHOWN IS BASED UPON EXISTING BUILDING DOCUMENTS AND/OR FROM FIELD OBSERVATION. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENTS AND/OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT.

G-9 DETAILS DESIGNATED AS "TYPICAL DETAILS," APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.

G-10 SHOP DRAWINGS:
   A. SHOP DRAWINGS FOR ALL MATERIALS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE START OF FABRICATION OR COMMENCEMENT OF WORK PER THE PROJECT SPECIFICATIONS.
   B. SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION. THE CONTRACTOR'S STAMP OF APPROVAL WILL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
   C. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED.
   D. CHANGES TO SHOP DRAWINGS THAT ARE RE-SUBMITTED MUST BE CLOUDED OR SOMEHOW INDICATE THAT A CHANGE HAS BEEN MADE TO THE PREVIOUSLY ISSUED AND REVIEWED DRAWING.
   E. THE CONTRACTOR IS TO PROVIDE THE ENGINEER WITH WRITTEN NOTICE OF DEVIATIONS OF ANY TYPE FROM THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. THE NOTICE MUST BE RECEIVED PRIOR TO SHOP DRAWING SUBMITTAL. THE CONTRACTOR REMAINS LIABLE FOR ANY DEVIATION UNLESS REVIEWED BY THE ENGINEER AND ACKNOWLEDGED IN WRITING, PRIOR TO THE RECEIPT OF THE SHOP DRAWINGS.

G-11 AREAS OF EXCAVATION CONTAIN CONTAMINATED SOIL. REFER TO DWG. ENV-1 AS WELL AS ASSOCIATED SPECIFICATIONS FOR STOCKPILING, HANDLING, AND REMOVAL FROM SITE.

G-12 WORK WHICH IS WITHIN THE INFLUENCE LINE OF THE TRACK OR WORK THAT IS WITHIN 50' OF THE TRACK CENTERLINE AND HAS THE POTENTIAL TO AFFECT TRACK STABILITY SHALL REQUIRE TRACK MONITORING. REFER TO THE SPECIAL PROVISION "TRACK MONITORING".

FOUNDATIONS

F-1 FOUNDATIONS ARE TO BE PLACED ON 12' GRANULAR FILL COMFORMING TO THE REQUIREMENTS OF CONNDOT FORM 816 SECTION 2.14.

F-2 ELEVATIONS SHOWN ON THE DRAWINGS AT WHICH FOUNDATIONS BEAR ARE APPROXIMATE AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS. ANY BOTTOM OF FOOTING ELEVATIONS AT FOOTING STEP LOCATIONS, SHOWN ON THE DRAWINGS, ARE TO BE FIELD VERIFIED AND ADJUSTED AS REQUIRED SO THAT FOUNDATIONS BEAR ON MATERIAL OF AT LEAST THE CAPACITY NOTED ABOVE.

FOUNDATIONS (CONTINUED)

F-3 PRIOR TO PLACING CONCRETE, ANY WATER PRESENT IS TO BE PUMPED OUT FROM THE BOTTOM OF EXCAVATIONS TO A LEVEL APPROVED BY THE GEOTECHNICAL ENGINEER.

F-4 NO BACKFILLING AGAINST WALLS IS TO BE DONE UNTIL THE SLABS AT THE TOP AND BOTTOM HAVE BEEN PLACED OR ADEQUATE SHORING HAS BEEN PROVIDED. WALLS AND GRADE BEAMS HAVING BACKFILL AGAINST BOTH SIDES ARE TO HAVE BACKFILL PLACED ON BOTH SIDES SIMULTANEOUSLY.

REINFORCED CONCRETE

C-1 MIXING, TRANSPORTING, PLACING AND TESTING OF CONCRETE IN ACCORDANCE WITH ACI 301.

C-2 PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR MUST SUBMIT CONCRETE MIX DESIGNS FOR EACH TYPE OF CONCRETE TO BE USED, PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW.

C-3 THE SLUMP AT POINT OF PLACEMENT IS NOT TO EXCEED 4"(+/-) 1" AND THE WATER/CEMENT RATIO IS NOT TO EXCEED 0.45. IF INCREASED SLUMP OF 8" IS DESIRED FOR PUMPING, A SUPER-PLASTICIZER ADMIXTURE MAY BE ADDED.
   A. AIR ENTRAINMENT: 4% TO 5% IN CONCRETE EXPOSED TO FREEZE/THAW.

C-4 REINFORCEMENT IS TO BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI "DETAILING MANUAL NO. SP-66" (LATEST EDITION).

C-5 PROVIDE ADEQUATE CONCRETE COVER IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY ACI 318.

C-6 REINFORCEMENT IS TO BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS WILL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS WHERE NECESSARY DURING CONSTRUCTION.

C-7 CONTINUOUS REINFORCING BARS TO BE TURNED AND LAPPED AT CORNERS AND INTERSECTIONS OF WALLS AND FOOTINGS. LAP SPLICES TO BE CLASS B TENSION SPLICES PER ACI 318. HOOKED BARS TO HAVE STANDARD ACI HOOKS UNO.

C-8 CONTINUOUS TOP BARS TO BE SPLICED AT MID-SPAN. CONTINUOUS BOTTOM BARS TO BE SPLICED AT CENTERLINE OF SUPPORTS (OR AS SHOWN ON DETAILS).

C-9 WELDED WIRE REINFORCEMENT IS TO BE SUPPLIED IN FLAT SHEETS ONLY. LAP WELDED WIRE REINFORCEMENT TWO FULL MESH LENGTHS (OR 6" MIN) AT SPLICES AND WIRE TOGETHER. WELDED WIRE REINFORCEMENT TO BE PLACED 1/4 TH THE SLAB THICKNESS FROM THE TOP OF SLABS, UON.

C-10 SLEEVES, INSERTS, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS AND OTHER EMBEDDED ITEMS TO BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS. INSTALLATION OF THESE ITEMS TO BE COORDINATED AND PROVIDED FOR PRIOR TO PLACING CONCRETE.

C-11 PROVIDE BLOCK-OUTS AS REQUIRED FOR PRE-CAST CONCRETE PANEL ANCHORAGE. FILL WITH CONCRETE ONCE PANEL IS IN PLACE.

C-12 ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED ½" X ½" UNO.

PRECAST CONCRETE

PC-1 PRECAST CONCRETE UNITS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI) DESIGN HANDBOOK AND ACI 318 (LATEST EDITIONS).

PC-2 PRECAST TO PRECAST AND PRECAST TO FOUNDATION CONNECTIONS, INCLUDING ANCHOR RODS, ARE TO BE DESIGNED AND DETAILED BY THE PRECAST MANUFACTURER. ALL LOOSE STEEL PLATES, CLIP ANGLES, SEAT BRACKETS AND ANGLES, ANCHORS, DOWELS, CLAMPS, HANGERS, AND OTHER MISCELLANEOUS STEEL SHAPES NECESSARY FOR INSTALLING AND SECURING PRECAST UNITS OR PANELS TO THE BUILDING STRUCTURAL SYSTEM MUST BE PROVIDED BY THE PRECAST MANUFACTURER.

PC-3 PRIOR TO FABRICATION, THE PRECAST MANUFACTURER IS TO SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW THE FOLLOWING, PREPARED BY OR UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WHICH THE PROJECT IS CONSTRUCTED AND BEARING THE SEAL OF THE PROFESSIONAL ENGINEER:
   A. DESIGN CALCULATIONS OF PRECAST UNITS, INTEGRATED SUPPORT MEMBERS AND CONNECTIONS.
   B. SHOP DRAWINGS SHOWING ERECTION PLANS, DIMENSIONS, REINFORCING REQUIREMENTS, CONSTRUCTION DETAILS, DESIGN CRITERIA, LOAD CAPACITIES, OPENING SIZES AND LOCATIONS AND FOUNDATION LOADS.

PC-4 SLEEVES, INSERTS, MECHANICAL OPENINGS, TROUGHS, CURBS AND OTHER EMBEDDED ITEMS TO BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS.

PC-5 FOR PRECAST CONCRETE RAMP COLOR REQUIREMENT, SEE "PRECAST STRUCTURAL CONCRETE" SPECIFICATION.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...001.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION No. 17778 LICENSED PROFESSIONAL ENGINEER

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: STRUCTURAL NOTES 1

PROJECT NO. 170-3155
DRAWING NO. FST-001
SHEET NO. 04.12.002

PRECAST CONCRETE (CONTINUED)

PC-6 ALL OPENINGS (SHOP AND FIELD CUT) MUST BE SHOWN ON FINAL APPROVED SHOP DRAWINGS. FIELD CUT OPENINGS ARE NOT PERMITTED UNLESS SPECIFICALLY SHOWN ON THE SHOP DRAWINGS AND ACCOUNTED FOR IN THE DESIGN BY THE PRECAST MANUFACTURER.

PC-7 REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND REVEALS NOT SHOWN.

PC-8 COORDINATE WITH ELECTRICAL DRAWINGS FOR GROUNDING REQUIREMENTS.

PC-9 PRECAST CONCRETE PLANKS AND RAMPS:

A. PRECAST CONCRETE PLANKS AND RAMPS ARE TO BE DESIGNED FOR SUPERIMPOSED DEAD AND LIVE LOADS INDICATED ON THE DRAWINGS, AND IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND REGULATIONS. ADDITIONALLY, DESIGN THE PANELS FOR ALL STRESSES INDUCED BY THE LIFTING AND ERECTION PROCESS.

B. PRECAST MANUFACTURER MUST CONSULT ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS REQUIRED IN PRECAST PLANKS AND RAMPS IN ADDITION TO THOSE INDICATED ON THE STRUCTURAL DRAWINGS. REINFORCE PLANKS AND RAMPS, OR PROVIDE HEADER, AS REQUIRED.

C. FOLLOWING ERECTION, DEFLECTION OF PRECAST UNITS ARE NOT TO EXCEED THE SPAN/360 FOR THE SUM OF DEFLECTIONS DUE TO LIVE LOAD AND LONG-TERM SUSTAINED LOADS.

D. CONCRETE FOR TOPPING SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF NOT LESS THAN 5000 PSI AT 28 DAYS.

E. SURFACE OF PRECAST PLANKS AND RAMPS TO RECEIVE CONCRETE TOPPING MUST BE CLEANED AND PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 302.1 (LATEST EDITION).

F. COMPOSITE CONCRETE TOPPING TO BE REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC (FURNISHED IN SHEETS).

G. PRECAST PLANKS SHALL HAVE A SMOOTH ALIGNMENT ALONG TRACK-SIDE FACE WHEN TIED TOGETHER. ALLOWABLE TOLERANCE SHALL BE $\frac{1}{8}$".

STRUCTURAL STEEL

S-1 PRIOR TO FABRICATION, THE STEEL FABRICATOR IS TO SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW THE FOLLOWING:

A. DESIGN CALCULATIONS OF STRUCTURAL STEEL CONNECTIONS, PREPARED BY OR UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WHICH THE PROJECT IS CONSTRUCTED AND BEARING THE SEAL OF THE PROFESSIONAL ENGINEER.

B. SHOP DRAWINGS SHOWING ERECTION PLANS, PIECE DRAWINGS, AND CONNECTION DETAILS.

S-2 THE STRUCTURAL STEEL FABRICATOR, AND/OR GENERAL CONTRACTOR, MUST VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AT THE SITE. ALL DISCREPANCIES FOUND ARE TO BE REPORTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS ARE TO INCLUDE ALL FIELD MEASUREMENTS AND CONDITIONS.

S-3 STRUCTURAL STEEL FABRICATOR IS TO PROVIDE FOR VERTICAL AND HORIZONTAL FIELD ADJUSTMENT OF ALL SUPPORT ASSEMBLIES.

S-4 CUTS, HOLES, COPING, ETC REQUIRED FOR OTHER TRADES MUST BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN THE FIELD WILL NOT BE PERMITTED.

S-5 STEEL BEAMS ARE TO BE EQUALLY SPACED IN BAYS UNLESS OTHERWISE NOTED.

S-6 FABRICATE AND INSTALL BEAMS WITH NATURAL CAMBER UP UNLESS CAMBER IS NOTED ON THE DRAWINGS.

S-7 ALL STRUCTURAL STEEL FRAMES AND TRUSSES ARE TO BE SECURELY BRACED UNTIL ALL FLOOR SLABS AND ROOF DECKS HAVE BEEN INSTALLED AND BECOME CAPABLE OF STABILIZING THE FRAMES.

S-8 UNLESS ALTERNATE CONNECTIONS ARE APPROVED BY THE ENGINEER, BOLTED CONNECTIONS SHALL BE MADE ACCORDING TO AISC TABLE II OR III - FRAMED BEAM CONNECTIONS. THE MINIMUM DEPTH OF THE CONNECTION MUST BE MORE THAN 67% OF THE BEAM DEPTH EXCEPT THAT BEAMS FRAMING TO COLUMNS SHALL HAVE FULL DEPTH CONNECTIONS USING $\frac{3}{8}$" MINIMUM CONNECTION ANGLES OR PLATES.

A. NON-COMPOSITE BEAM CONNECTIONS TO BE DESIGNED FOR ONE HALF THE UNIFORM LOAD CAPACITY OF THE BEAM AS TABULATED BY AISC UNLESS HIGHER LOADS ARE INDICATED ON THE DRAWINGS.

B. COMPOSITE BEAMS (SHEAR STUDS ON TOP FLANGE) REQUIRE CONNECTION CAPACITIES TO BE INCREASED TO 75% LOAD CAPACITY OF THE BEAM UNLESS HIGHER LOADS ARE INDICATED ON THE DRAWINGS.

BEAM SIZE	MIN. NO. OF BOLTS
W8, W10	2
W12, W14	3
W16, W18	4
W21	5
W24	6
W27	7
W30	8
W33	9
W36	10

S-9 UNLESS OTHERWISE NOTED, STRUCTURAL STEEL CONNECTIONS TO BE SHOP WELDED AND FIELD BOLTED.

A. BOLTS: $\frac{3}{4}$" DIAMETER ASTM A 325 UNO WITH MATCHING WASHERS AND HEAVY HEX NUTS. USE TYPE N (HIGH STRENGTH) FOR FRAMED CONNECTIONS AND TYPE SC AT WIND MOMENT AND BRACING CONNECTIONS.

S-10 EXPANSION BOLTS TO BE STUD TYPE, CARBON STEEL ANCHORS OF THE DIAMETER AND EMBEDMENT INDICATED ON THE DRAWINGS. USE HILTI KWIK BOLT TZ EXPANSION ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

STRUCTURAL STEEL (CONTINUED)

S-11 SUBSTITUTION OF EXPANSION ANCHORS FOR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED.

S-12 SHEAR STUD CONNECTORS TO BE $\frac{3}{4}$" DIAMETER X 3$\frac{1}{2}$" LONG (IN PLACE HEIGHT) AND SECURELY WELDED TO THE BEAMS. NUMBER OF STUDS IS INDICATED BY (XX) AFTER BEAM SIZE ON PLAN. NUMBER OF STUDS INDICATE BY (XX-XX-XX ETC) SHALL BE PLACED IN CORRESPONDING GROUPS BETWEEN INTERSECTING MEMBERS AND SUPPORTING MEMBERS (NO STUDS ON CANTILEVERS).

A. WHERE DECK IS PERPENDICULAR TO COMPOSITE BEAM (I.E. FILLER BEAM), PLACE A SINGLE STUD IN EVERY OTHER DECK CELL STARTING AT EACH BEAM END AND WORKING TOWARD THE CENTER OF THE BEAM. ANY REMAINING STUDS ARE TO BE PLACED IN EMPTY CELLS STARTING AGAIN AT EACH BEAM END AND WORKING TOWARD THE CENTER. ADDITIONAL STUDS OR "PUDDLE WELDS" MUST BE USED FOR REMAINING EMPTY FLUTES. IF NUMBER OF STUDS IS MORE THAN NUMBER OF FLUTES, PLACE DOUBLE OR TRIPLE ROWS AS NEEDED STARTING FROM EACH BEAM END AND WORKING TOWARD THE CENTER OF THE BEAM.

B. WHERE DECK IS PARALLEL TO COMPOSITE BEAM (I.E. GIRDER), STUDS ARE TO BE EQUALLY SPACED OVER THE LENGTH OF THE BEAM. STUDS IN GROUPS BETWEEN INTERSECTING MEMBERS ARE TO BE EQUALLY SPACED.

C. MINIMUM CENTER-TO-CENTER SPACING OF STUDS TO BE 6 DIAMETERS (4$\frac{1}{2}$") ALONG LONGITUDINAL AXIS OF COMPOSITE BEAM AND 4 DIAMETERS (3") TRANSVERSE TO THE LONGITUDINAL AXIS OF THE COMPOSITE BEAM. PLACE SINGLE ROW STUDS ON BEAM CENTER LINE. FOR STAGGERED ARRANGEMENT OF STUDS MAINTAIN MINIMUM 3$\frac{3}{4}$" SPACE BETWEEN STUDS, AND $\frac{7}{8}$" MINIMUM DISTANCE FROM EDGE OF BEAM FLANGE. STUD SPACING IS NOT TO EXCEED 36" ON CENTER.

D. SHOP DRAWING OF STUD PLACEMENT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

S-13 PAINT AND PROTECTION:

A. STRUCTURAL STEEL TO RECEIVE PAINTED FINISH TO BE SHOP CLEANED AND PRIME PAINTED PER THE SPECIFICATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISH PAINT SYSTEMS.

B. GALVANIZED FASTENERS AND ACCESSORIES TO BE HOT DIPPED PER ASTM A153.

C. REPAIR DAMAGE TO GALVANIZED COATINGS USING ASTM A780 ZINC RICH PAINT.

D. BRIDGE ASSEMBLY TO BE TREATED WITH THERMAL SPRAY METALIZED (TSM) COATING AND TOP COAT PER SPECS. FIELD WELDS WILL REQUIRE TOUCH UP OF TSM FINISH.

S-14 ALL CANOPY AND PEDESTRIAN BRIDGE ELEMENTS CONSIDERED "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL."

MASONRY

M-1 MASONRY WORK MUST BE IN CONFORMANCE WITH THE "BUILDING CODE FOR MASONRY STRUCTURES" (ACI-530-05), AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI-530.1-05), OF THE AMERICAN CONCRETE INSTITUTE.

M-2 ALL MORTAR TO CONFORM TO ASTM C270, TYPE N

A. PORTLAND CEMENT: ASTM C150, TYPE I OR II.

B. LIME: ASTM C207.

M-3 GROUT IS TO CONFORM TO ASTM C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c) OF 3000 PSI.

A. SLUMP: 8 TO 11 INCHES.

M-4 CONCRETE MASONRY SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF MASONRY (F'M) EQUAL TO 1900 PSI AND:

A. HOLLOW BLOCK: ASTM C90, NORMAL WEIGHT.

M-5 EPOXY COATED BAR REINFORCEMENT PER ASTM A615, GRADE 60 AND ASTM A775. GROUT ALL REINFORCED CELLS SOLID WITH GROUT. PROVIDE MINIMUM LAP SPLICES OF 48 BAR DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO PROPERLY LOCATE REINFORCING WITHIN CMU CELLS. PLACE BARS @ CENTER OF CELLS UNO.

M-6 PROVIDE ONE-PIECE PREFABRICATED HORIZONTAL JOINT REINFORCING UNITS PER SPEC AT 16" O.C. VERTICALLY TYPICAL AND AT 8" O.C. AT ALL WALL CORNERS AND INTERSECTIONS AND IN THE FIRST TWO COURSES ABOVE AND BELOW MASONRY OPENINGS. PROVIDE LAP AS RECOMMENDED BY THE MANUFACTURER WITH A MINIMUM OF 6". DISCONTINUE HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.

M-7 FULL BED AND HEAD JOINTS MUST BE USED.

M-8 GROUT CELLS OF CMU SOLID FOR BOND BEAMS AND CELLS WITH VERTICAL REINFORCEMENT.

M-9 CONTROL JOINTS IN MASONRY WALLS TO BE PROVIDED WHERE INDICATED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS OR AT A MAXIMUM OF 24'-0" ON CENTER.

M-10 ALL MASONRY WALLS TO BE SECURELY BRACED UNTIL ROOF SYSTEM HAS BEEN INSTALLED AND HAS BECOME CAPABLE OF STABILIZING THE WALLS.

M-11 DOWEL REINFORCED MASONRY WALLS TO WALL OR CURB AS SHOWN ON THE PLANS. LOCATE DOWELS IN CELLS TO CONTAIN WALL REINFORCEMENT. LAP DOWELS AND WALL REINFORCEMENT A MINIMUM OF 48 BAR DIAMETERS UNO.

M-12 DURING CONSTRUCTION, COVER AND PROTECT THE TOPS OF MASONRY WALLS AT THE END OF EACH DAY.

M-13 UNLESS NOTED OTHERWISE, PLACE TYPICAL CMU REINFORCMENT IN CENTER OF FULLY GROUTED CELLS AND SPACE AS FOLLOWS: (1)#5 VERTICAL AT 16" ON CENTER.

M-14 ALL CORNERS TO BE TIED BY MASONRY BOND.

M-15 DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS FOR MASONRY ARE NOMINAL. SEE ARCHITECTURAL DRAWINGS FOR ACTUAL MASONRY DIMENSIONS.

METAL DECK

D-1 METAL DECK SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS" OF THE STEEL DECK INSTITUTE, LATEST EDITION.

D-2 ROOF DECK TO BE FASTENED TO THE SUPPORTING STEEL AT THE ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS WITH $\frac{5}{8}$" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN. DECK SIDE LAPS BETWEEN SUPPORTS SHALL BE FASTENED BY WELDS AT INTERVALS NOT EXCEEDING THE LESSER OF HALF THE SPAN OR 36". ANY SPLIT OR PARTIAL PANELS SHALL BE FASTENED TO THE SUPPORTING STRUCTURE IN EVERY VALLEY REGARDLESS OF ADJACENT FASTENER PATTERNS.

D-3 COMPOSITE STEEL FLOOR DECK TO BE WELDED TO ALL SUPPORTING STEEL ELEMENTS WHERE NO SHEAR STUDS ARE USED.

D-4 DECK UNITS TO BE A MINIMUM OF THREE (3) SPANS CONTINUOUS WITH LAPS PLACED OVER SUPPORTS WHERE POSSIBLE.

D-5 METAL DECK SUPPLIER SHALL PROVIDE LIGHT GAUGE METAL CONCRETE POUR STOPS, DECK CLOSURE PIECES AND SHALL REINFORCE OR SUPPORT DECK AT OPENINGS AND COLUMN AREAS AS REQUIRED, IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.

LIGHT GAUGE STEEL FRAMING

L-1 STRUCTURAL MEMBERS MUST BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I) "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

L-2 STRUCTURAL MEMBERS TO BE FORMED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A653 WITH MINIMUM YIELD STRESS OF 50 KSI FOR STUDS OR JOISTS.

L-3 LIGHT GAUGE MEMBERS AND DETAILS SHOWN ON THE ARCHITECTURAL OR STRUCUTRAL DRAWINGS ARE FOR BID PURPOSES ONLY. STRUCTURAL STUD AND/OR JOIST FRAMING MEMBERS AND CONNECTIONS ARE TO BE ENGINEERED BY THE MANUFACTURER. DESIGN CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN CONNECTICUT AND SHOP DRAWINGS INDICATING ALL JAMBS, POSTS, HEADERS, BRACING AND PIECES NECESSARY FOR CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.

L-4 EXTERIOR STUD WALLS TO BE DESIGNED FOR A UNIFORM WIND PRESSURE AS REQUIRED BY CODE AND A MAXIMUM PERMISSIBLE HORIZONTAL DEFLECTION OF L/360 (L/600 FOR MASONRY VENEER).

L-5 MAXIMUM STUD SPACING TO BE 16" ON CENTER WITH DOUBLED STUDS (MINIMUM) AT EACH SIDE OF OPENINGS.

L-6 FRAMING COMPONENTS ARE TO BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

L-7 FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.

L-8 FASTENING OF COMPONENTS IS TO BE WITH SELF-DRILLING SCREWS OR WELDING. WELDING OF STUDS MUST COMPLY WITH AWS D 1.3. ALL WELDS TO BE TOUCHED-UP WITH ZINC-RICH PAINT. SCREWS AND WELDS TO BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS IS NOT PERMITTED.

L-9 LIGHT GAUGE STEEL FRAMING MEMBERS ARE TO BE SECURELY ATTACHED TO THE STRUCTURE WHERE INDICATED ON THE DRAWINGS, OR APPROVED SHOP DRAWINGS. FASTENERS TO BE COMPATIBLE WITH THE STRUCTURAL MEMBERS. POWDER DRIVEN FASTENERS ARE NOT ACCEPTABLE FOR STRUCTURAL APPLICATIONS.

L-10 PROVIDE VERTICAL SLIDE TRACKS, OR SLIDE CLIPS, WHERE INDICATED ON THE DRAWINGS OR OTHERWISE REQUIRED TO ALLOW FOR VERTICAL STRUCTURAL MOVEMENTS. MAXIMUM EXPECTED STRUCTURE DEFLECTION IS L/360 AT FLOORS AND L/240 AT ROOFS.

L-11 REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING SHEATHING TYPE, FINISHES, OPENINGS, LOCATIONS, ETC.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...002.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: STRUCTURAL NOTES 2

PROJECT NO. 170-3155

DRAWING NO. FST-002

SHEET NO. 04.12.003

TRACK BASELINE AND CENTERLINE NOTES:

1. THE BASELINE OF THE PROPOSED TRACKS ARE BY OTHERS AND BEING CONSTRUCTED UNDER A SEPARATE STATE PROJECT. THEY ARE SHOWN HERE FOR INFORMATIONAL PURPOSES ONLY AND ARE IN NO WAY WARRANTED TO INDICATE THE AS-BUILT CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED TRACKS VIA A FIELD SURVEY PRIOR TO START OF PLATFORM CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES. AT ALL TIMES DURING THE CONSTRUCTION OF THE PLATFORMS, THE CONTRACTOR SHALL MAINTAIN THE HORIZONTAL AND VERTICAL OFFSETS AS INDICATED IN THE CONTRACT DOCUMENTS.

2. THE BASELINE OF THE PROPOSED GAUNTLET TRACK IS BY OTHERS AND BEING CONSTRUCTED UNDER A SEPARATE STATE PROJECT. IT IS REFERENCED HERE FOR INFORMATIONAL PURPOSES ONLY AND IS IN NO WAY WARRANTED TO INDICATE THE AS-BUILT CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL CONSTRUCT THE PLATFORMS IN ACCORDANCE WITH THE APPLICABLE NOTES FOR TRACK 1 AND TRACK 2 AND AS SHOWN ON THE PLANS.

KEYS AND ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT OR ARCHITECTURAL(S)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
APG	AUGER PRESSURE GROUTED PILE
B PL	BASE PLATE OR BEARING PLATE
B/	BOTTOM OF
BF	BOTH FACES
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BRG	BEARING
BS	BOTH SIDES
BT	BENT
BTWN	BETWEEN
CB	CATCH BASIN
CF	CUBIC FOOT OR CUBIC FEET
CHAM	CHAMFER
CIP	CAST IN PLACE
CJ	CONTROL JOINT
℄	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CT	CANTILEVER
C&S	COMMUNICATION & SIGNAL
db	BAR DIAMETER
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBED(ED)(MENT)
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EW	EACH WAY
EXC	EXCAVATE OR EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FAR FACE
FIN	FINISHED
FL	FLOOR
FS	FAR SIDE
FT	FOOT OR FEET
FTG	FOOTING
GA	GAGE OR GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH(ES)
INCL	INLUDE(D)(ING), INCLUSIVE
INFO	INFORMATION
INT	INTERIOR
ISO JT	ISOLATION JOINT
JST	JOIST
JT	JOINT
K	KIP(S)
KB	KNEE BRACE
KCF	KIPS PER CUBIC FEET
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FEET
KSI	KIPS PER SQUARE INCH
L	LENGTH
LB	POUND
ld	DEVELOPMENT LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LWC	LIGHT-WEIGHT CONCRETE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL(S)
M/E/P	MECHANICAL, ELECTRICAL & PLUMBING
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	MASONRY PIER
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL-WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP HAND	OPPOSITE HAND
P/C	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FEET
PCI	POUNDS PER CUBIC INCH
PERM	PERMANENT
PLF	POUNDS PER LINEAR FOOT
P/S	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
PVMT	PAVEMENT
RAD	RADIUS OR RADII
RE:	REFER TO
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION OR REVISE
ROW	RIGHT-OF-WAY
RR	RAILROAD
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SHT	SHEET
SIM	SIMILAR
SL	SLOPE(D) OR SLOPING
SLV	SLEEVE
SOG	SLAB ON GRADE
SP	SPACE(S)
SPA	SPACES OR SPACING
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYMM	SYMMETRICAL
T	THICKNESS
T&B	TOP & BOTTOM
T&S	TEMPERATURE & SHRINKAGE
T/	TOP OF
TPE	TOP OF PIER ELEVATION
TSE	TOP OF SHELF ELEVATION
TSM	THERMAL SPRAY METALIZING
TWE	TOP OF WALL ELEVATION
TEMP	TEMPORARY
THD	THREAD(ED)
THK	THICKNESS
TRANS	TRANSVERSE
TSF	TONS PER SQUARE FEET
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDTH
W/	WITH
W/O	WITHOUT
WL	WIND LOAD
WP	WORKING POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCEMENT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_003.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT — JAC 1978 — LICENSED PROFESSIONAL ENGINEER

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE: **STRUCTURAL NOTES 3**

PROJECT NO. **170-3155**
DRAWING NO. **FST-003**
SHEET NO. **04.12.004**

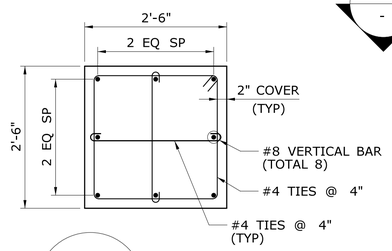
NOTES:

1. FOR GENERAL NOTES AND STRUCTURAL NOTES SEE DRAWINGS NOS. FST-001 THRU FST-003.
2. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
3. CONTRACTOR MUST PROTECT THE OPERATIONAL INTEGRITY OF THE UNDERGROUND SIGNAL, POWER AND FIBER OPTIC CABLES DURING ALL PHASES OF CONSTRUCTION WORK.
4. SEE DRAWING NO. FST-106 FOR STAIR DETAILS.

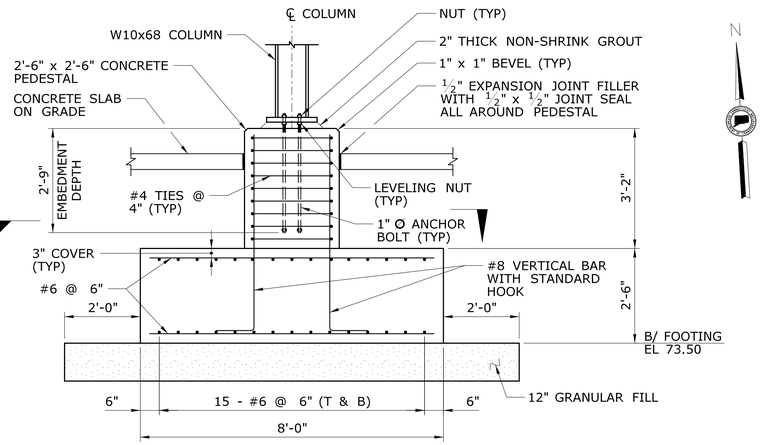
LEGEND

- BRICK SHELF (HIGHLIGHTED FOR CLARITY) SEE "ELEVATION TABLE" ON DRAWING NO. FST-210 FOR TSE AT PILASTERS.
- DENOTES BORING

WORKING POINT COORDINATES		
	NORTHING	EASTING
W.P. 1	728,391.90	979,874.27
W.P. 2	728,392.99	979,904.25



2 - SECTION
SCALE: 3/4" = 1'-0"



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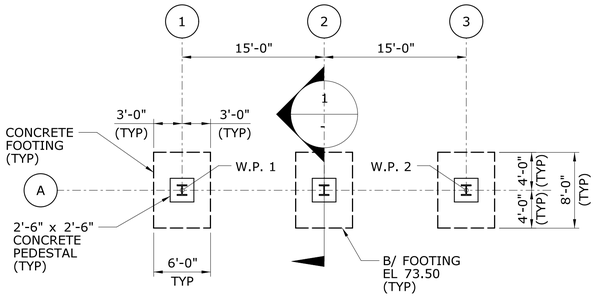
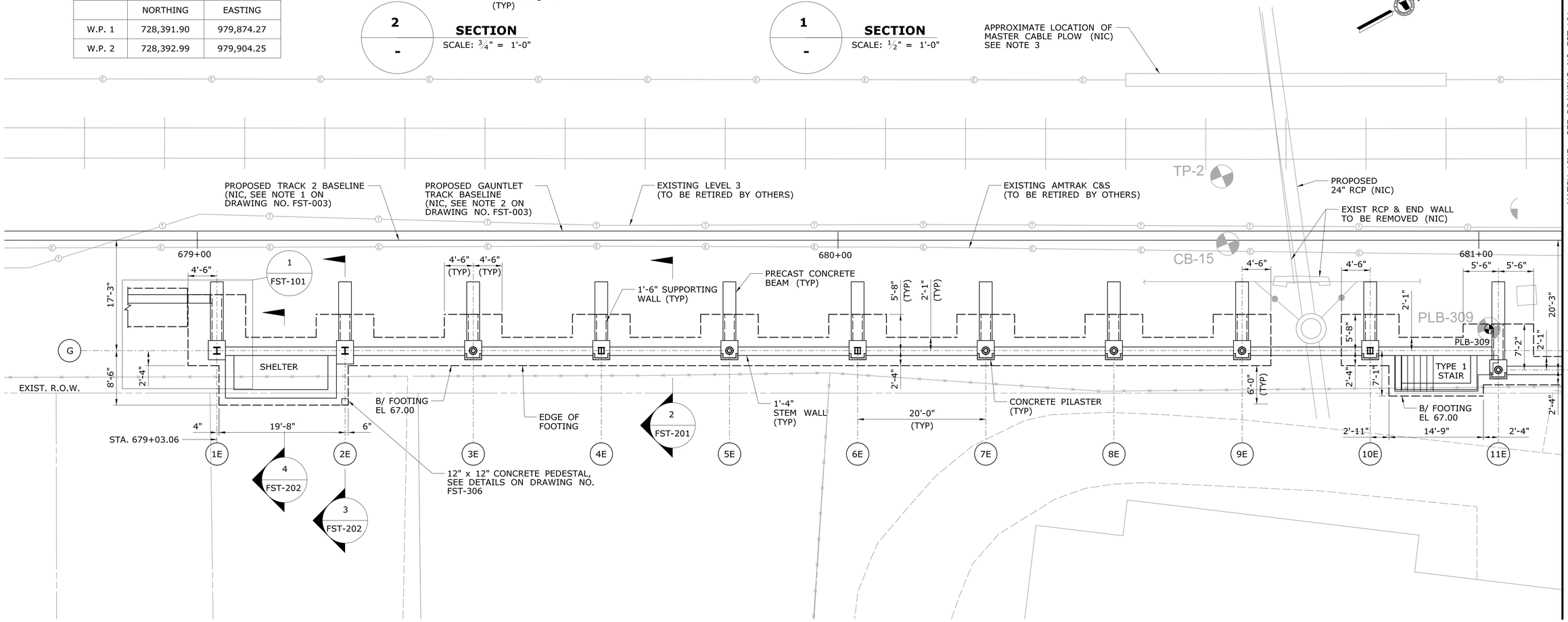


PARKING AREA CANOPY FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



PARTIAL FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_100.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE: **FOUNDATION PLAN 1**

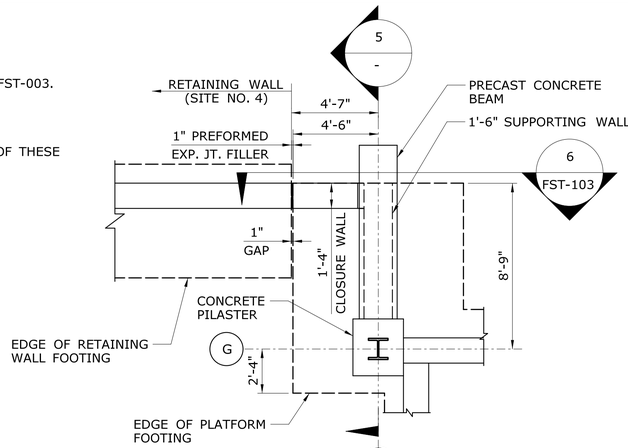
PROJECT NO. **170-3155**
DRAWING NO. **FST-100**
SHEET NO. **04.12.005**

NOTES:

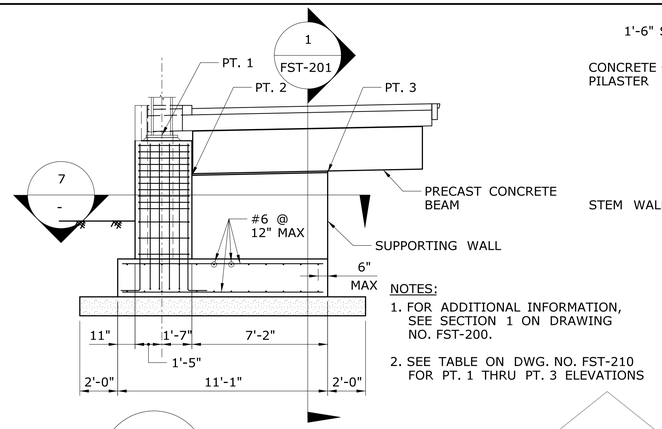
1. FOR STRUCTURAL NOTES SEE DRAWINGS NOS. FST-001 TO FST-003.
2. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
3. UNDERGROUND SIGNAL, POWER AND FIBER OPTIC CABLES. CONTRACTOR MUST PROTECT THE OPERATIONAL INTEGRITY OF THESE CABLES DURING ALL PHASES OF CONSTRUCTION WORK.

LEGEND

- BRICK SHELF (HIGHLIGHTED FOR CLARITY) SEE "ELEVATION TABLE" ON DRAWING NO. FST-210 FOR TSE AT PILASTERS.
- DENOTES BORING

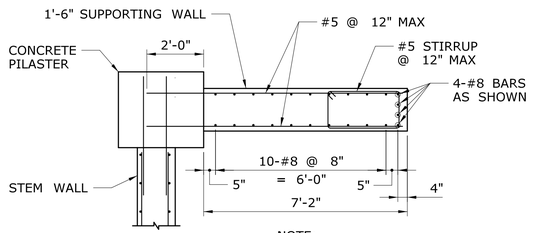


1 / FST-100 **DETAIL**
SCALE: 1/4" = 1'-0"



5 / - **SECTION**
SCALE: 1/4" = 1'-0"

NOTES:
1. FOR ADDITIONAL INFORMATION, SEE SECTION 1 ON DRAWING NO. FST-200.
2. SEE TABLE ON DWG. NO. FST-210 FOR PT. 1 THRU PT. 3 ELEVATIONS



NOTE:
FOR PILASTER REINFORCEMENT, SEE DRAWING NO. FST-209.

7 / - **SECTION**
SCALE: 3/8" = 1'-0"

APPROXIMATE LOCATION OF MASTER CABLE PLOW (NIC) SEE NOTE 3

APPROXIMATE LOCATION OF COMMUNICATION HOUSE, AND HANDHOLE (NIC)

MATCH LINE - SEE DRAWING NO. FST-100

MATCH LINE - SEE DRAWING NO. FST-102

PROPOSED TRACK 2 BASELINE (NIC, SEE NOTE 1 ON DRAWING NO. FST-003)

PROPOSED GAUNTLET TRACK BASELINE (NIC, SEE NOTE 2 ON DRAWING NO. FST-003)

EXISTING LEVEL 3 (TO BE RETIRED BY OTHERS)

EXISTING AMTRAK C&S (TO BE RETIRED BY OTHERS)

682+00

683+00

10'-0" 10'-0"

5'-6" (TYP) 5'-6" (TYP)

1'-6" SUPPORTING WALL (TYP)

PRECAST CONCRETE BEAM (TYP)

20'-3"

2'-4"

8'-6"

7'-2" (TYP)

2'-1" (TYP)

SNOW MELT EQUIPMENT ROOM SEE DRAWING NO. FST-105 FOR DETAIL

FOOTING STEP

B/ FOOTING EL 67.00

B/ FOOTING EL 65.50

12" x 12" CONCRETE PEDESTAL, SEE DETAILS ON DRAWING NO. FST-306 (TYP)

1'-4" STEM WALL (TYP)

6" 40'-0" 6"

2 / FST-201

1 / FST-200

CONCRETE PILASTER (TYP.)

20'-0" (TYP)

12E 13E 14E 15E 16E 17E 18E 19E 20E 21E

H

PARTIAL FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..._07..FST..._101.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

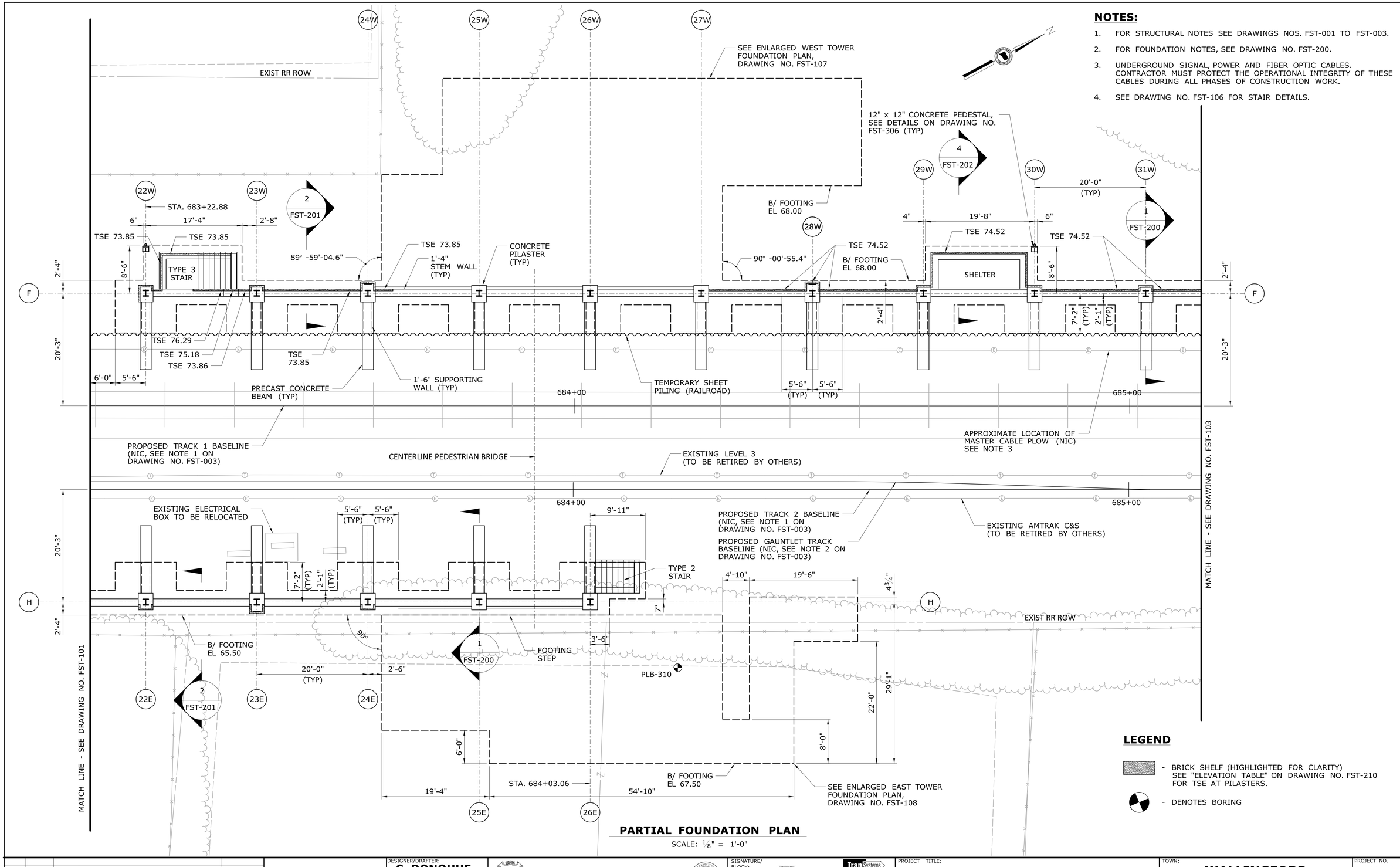
TOWN: WALLINGFORD

DRAWING TITLE: FOUNDATION PLAN 2

PROJECT NO. 170-3155
DRAWING NO. FST-101
SHEET NO. 04.12.006

NOTES:

1. FOR STRUCTURAL NOTES SEE DRAWINGS NOS. FST-001 TO FST-003.
2. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
3. UNDERGROUND SIGNAL, POWER AND FIBER OPTIC CABLES. CONTRACTOR MUST PROTECT THE OPERATIONAL INTEGRITY OF THESE CABLES DURING ALL PHASES OF CONSTRUCTION WORK.
4. SEE DRAWING NO. FST-106 FOR STAIR DETAILS.



PARTIAL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

LEGEND

- BRICK SHELF (HIGHLIGHTED FOR CLARITY) SEE "ELEVATION TABLE" ON DRAWING NO. FST-210 FOR TSE AT PILASTERS.
- DENOTES BORING

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_102.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE: **FOUNDATION PLAN 3**

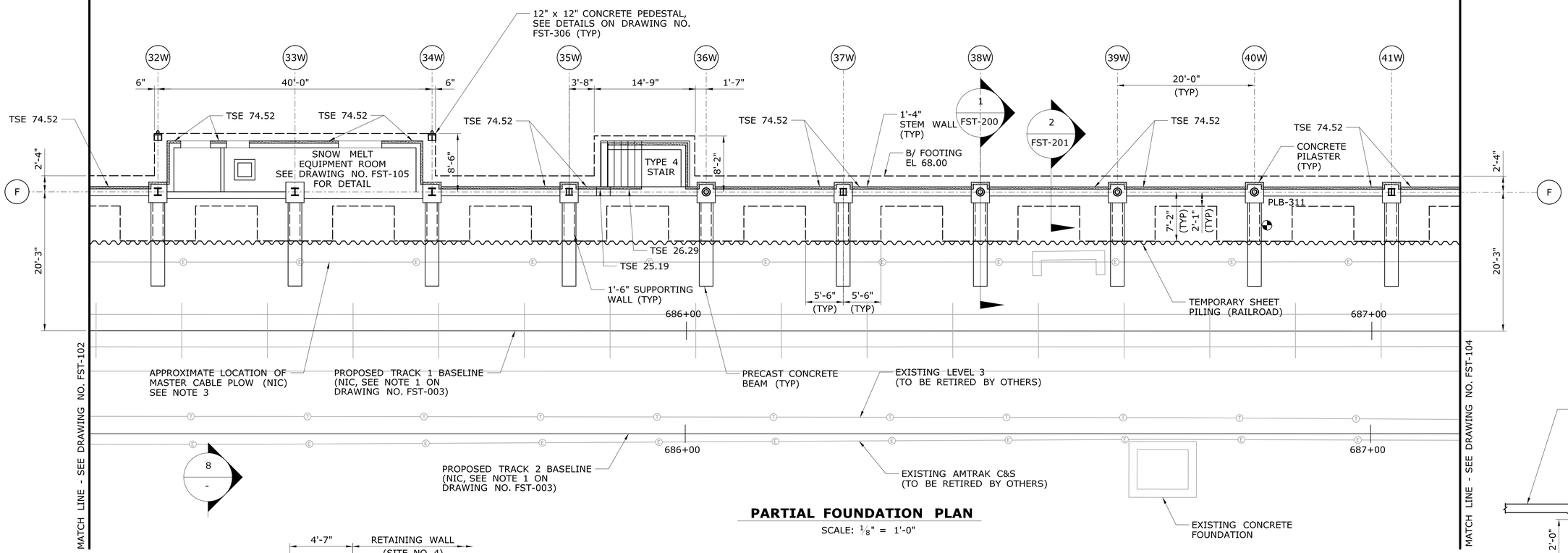
PROJECT NO. **170-3155**
DRAWING NO. **FST-102**
SHEET NO. **04.12.007**

NOTES:

1. FOR STRUCTURAL NOTES SEE DRAWINGS NOS. FST-001 TO FST-003.
2. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
3. UNDERGROUND SIGNAL, POWER AND FIBER OPTIC CABLES. CONTRACTOR MUST PROTECT THE OPERATIONAL INTEGRITY OF THESE CABLES DURING ALL PHASES OF CONSTRUCTION WORK.
4. SEE DRAWING NO. FST-106 FOR STAIR DETAILS.

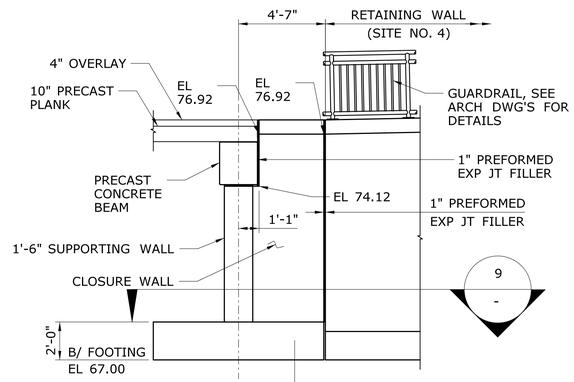
LEGEND

- BRICK SHELF (HIGHLIGHTED FOR CLARITY) SEE "ELEVATION TABLE" ON DRAWING NO. FST-210 FOR TSE AT PILASTERS.
- DENOTES BORING



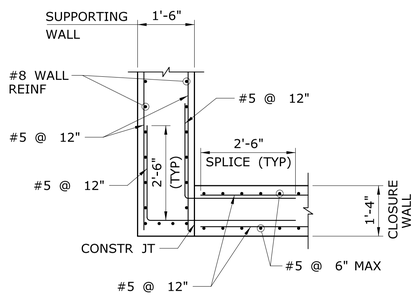
PARTIAL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



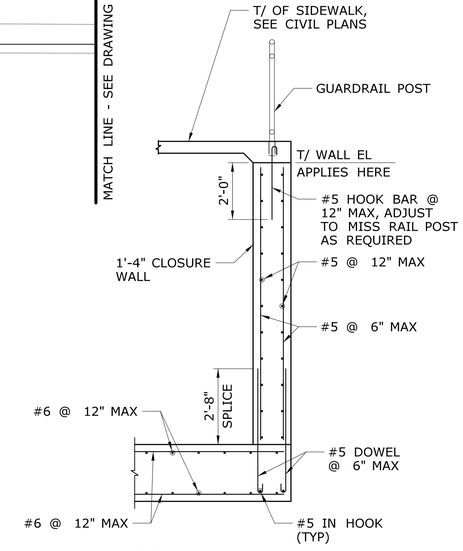
6 FST-101 **VIEW**

SCALE: 1/4" = 1'-0"



9 - **SECTION**

SCALE: 1/2" = 1'-0"



8 - **SECTION**

SCALE: 3/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...103.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE: **FOUNDATION PLAN 4**

PROJECT NO. **170-3155**
DRAWING NO. **FST-103**
SHEET NO. **04.12.008**

NOTES:

1. FOR STRUCTURAL NOTES SEE DRAWINGS NOS. FST-001 TO FST-003.
2. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
3. UNDERGROUND SIGNAL, POWER AND FIBER OPTIC CABLES. CONTRACTOR MUST PROTECT THE OPERATIONAL INTEGRITY OF THESE CABLES DURING ALL PHASES OF CONSTRUCTION WORK.
4. SEE DRAWING NO. FST-106 FOR STAIR DETAILS.
5. SEE DRAWING NO. FST-105 FOR PEDESTRIAN RAMP DETAILS.

LEGEND

- BRICK SHELF (HIGHLIGHTED FOR CLARITY) SEE "ELEVATION TABLE" ON DRAWING NO. FST-210 FOR TSE AT PILASTERS.
- DENOTES BORING

42W 43W 44W 45W 46W 47W

20'-0" (TYP) | 32'-7 5/8" | STA. 688+22.88

1'-4" STEM WALL (TYP)

CONCRETE PILASTER (TYP)

TSE 74.52 | TSE 74.52 | TSE 74.52

1'-8"

B/ FOOTING EL 68.00

6'-1 1/2"

1 FST-200

2 FST-201

T/SLAB EL 77.51 | PEDESTRIAN RAMP | T/SLAB EL 75.01

8'-6" | 7" | 2'-4" | 20'-3" | 7'-2" | 7'-2" (TYP) | 2'-1" (TYP)

APPROXIMATE LOCATION OF COMMUNICATION HANDHOLE (NIC)

PBL-312

TYPE 5 STAIR

1'-6" SUPPORTING WALL (TYP)

TEMPORARY SHEET PILING (RAILROAD)

8'-11" | 6'-0"

5'-6" (TYP) | 5'-6" (TYP)

APPROXIMATE LOCATION OF MASTER CABLE PLOW (NIC) SEE NOTE 3

688+00

PRECAST CONCRETE BEAM (TYP)

PROPOSED TRACK 1 BASELINE (NIC, SEE NOTE 1 ON DRAWING NO. FST-003)

EXISTING LEVEL 3 (TO BE RETIRED BY OTHERS)

PROPOSED TRACK 2 BASELINE (NIC, SEE NOTE 1 ON DRAWING NO. FST-003)

688+00 | 689+00

EXISTING AMTRAK C&S (TO BE RETIRED BY OTHERS)

EXIST RR ROW

MATCH LINE - SEE DRAWING NO. FST-103

PARTIAL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_104.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION JAC 19778 LICENSED PROFESSIONAL ENGINEER

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

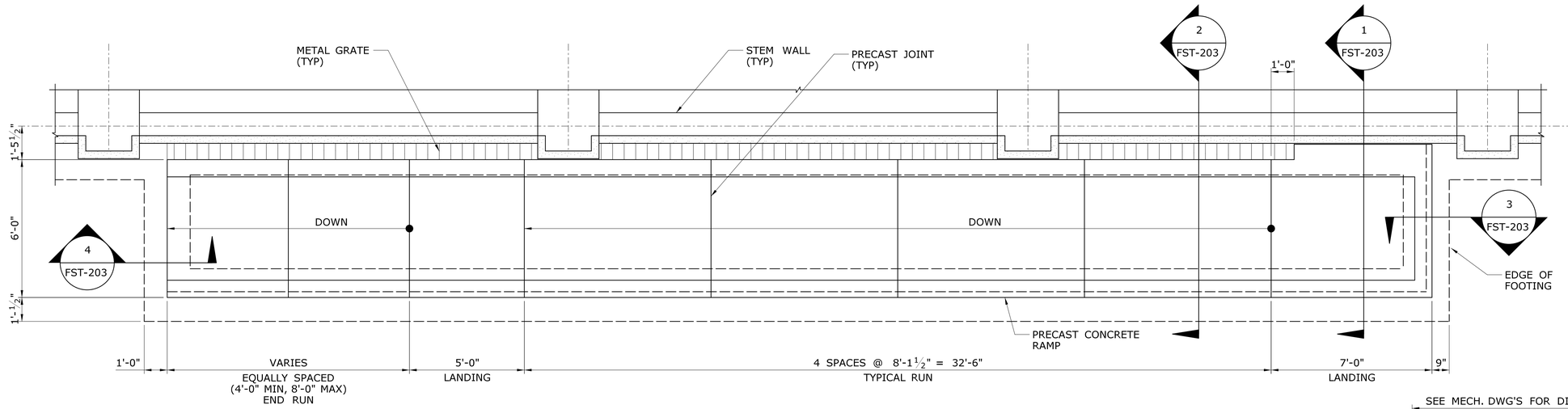
TOWN: WALLINGFORD

DRAWING TITLE: FOUNDATION PLAN 5

PROJECT NO. 170-3155

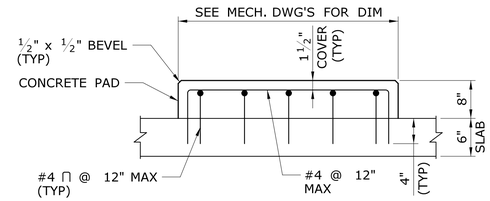
DRAWING NO. FST-104

SHEET NO. 04.12.009



TYPICAL PEDESTRIAN RAMP DETAIL

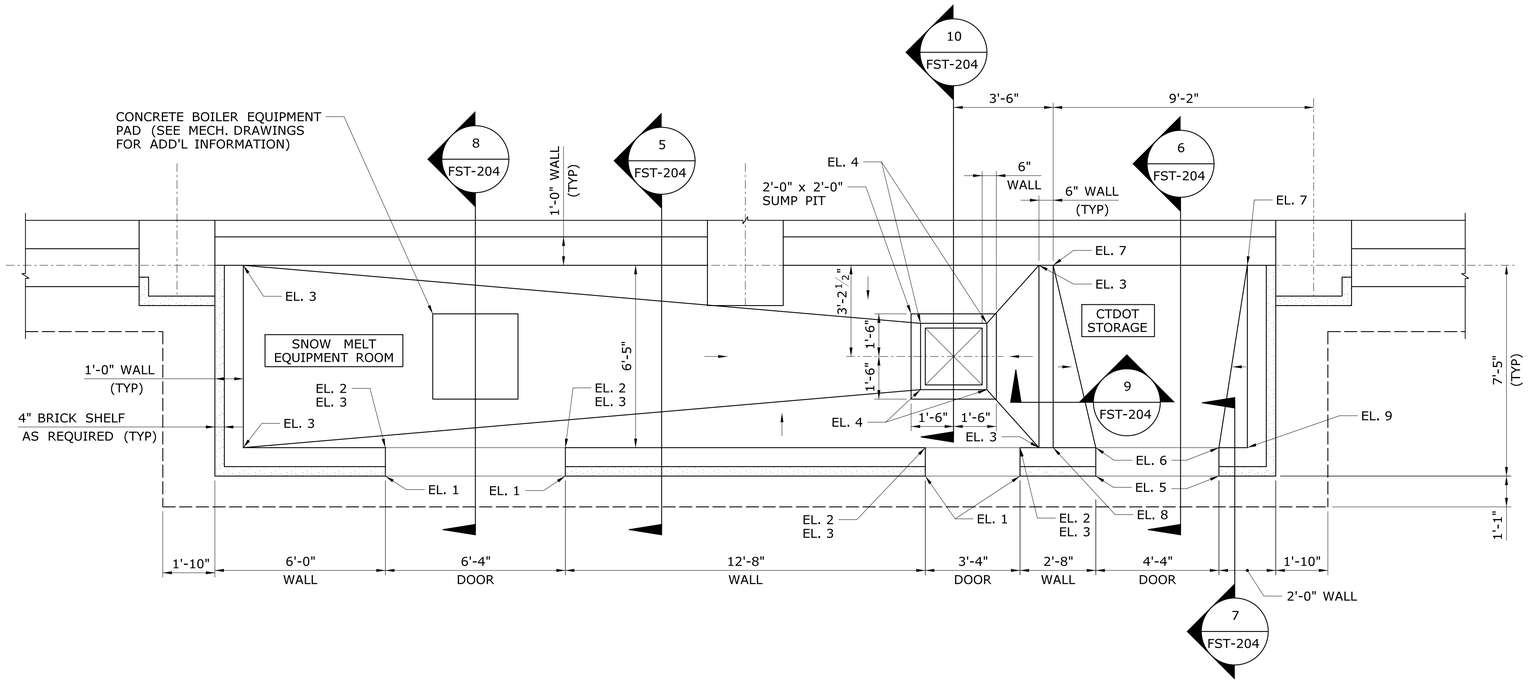
SCALE: ⅜" = 1'-0"



EQUIPMENT PAD DETAIL

N.T.S.

ELEVATION TABLE (FT)			
LOCATION	DESCRIPTION	WEST PLATFORM	EAST PLATFORM
EL. 1	TOP OF WALL	73.30	74.20
EL. 2	TOP OF WALL	73.30	74.20
EL. 3	TOP OF SLAB	72.63	73.53
EL. 4	TOP OF SLAB	72.39	73.29
EL. 5	TOP OF SLAB	73.30	74.20
EL. 6	TOP OF SLAB	73.31	74.21
EL. 7	TOP OF SLAB	73.38	74.28
EL. 8	TOP OF SLAB	73.33	74.23
EL. 9	TOP OF SLAB	73.32	74.22



TYPICAL SNOW MELT EQUIPMENT ROOM DETAIL

SCALE: ⅜" = 1'-0"

NOTES:

1. FOR OVERALL FOOTING DIMENSIONS, SEE "FOUNDATION PLANS".
2. SEE "HYDRONIC SNOW MELT PLANS" FOR SNOW MELT LAYOUT AT PEDESTRIAN RAMP.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES AT SNOW MELT EQUIPMENT ROOM AND CTDOT STORAGE ROOM.

LEGEND

- 4" BRICK SHELF (HIGHLIGHTED FOR CLARITY)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..-07..FST-..105.dgn

SIGNATURE/ BLOCK:

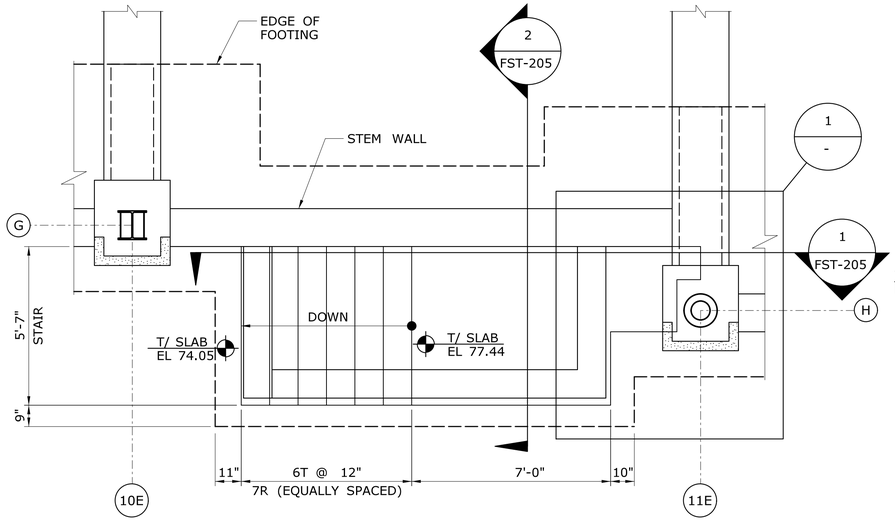
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

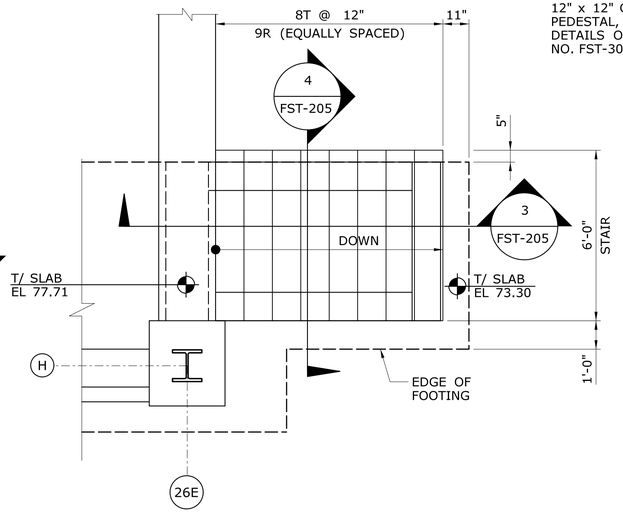
DRAWING TITLE: ENLARGED PLATFORM FOUNDATION PLAN 1

PROJECT NO. 170-3155
DRAWING NO. FST-105
SHEET NO. 04.12.010



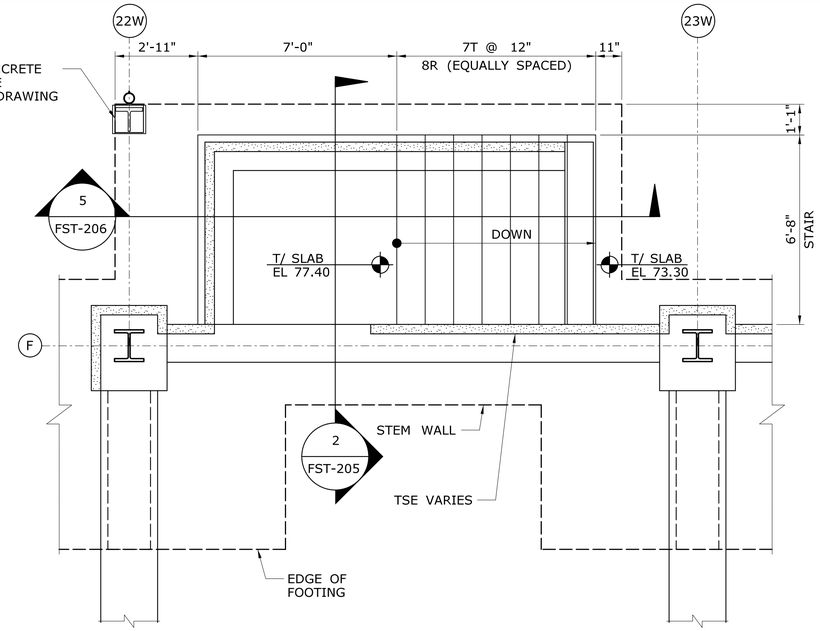
TYPE 1 STAIR

SCALE: 3/8" = 1'-0"



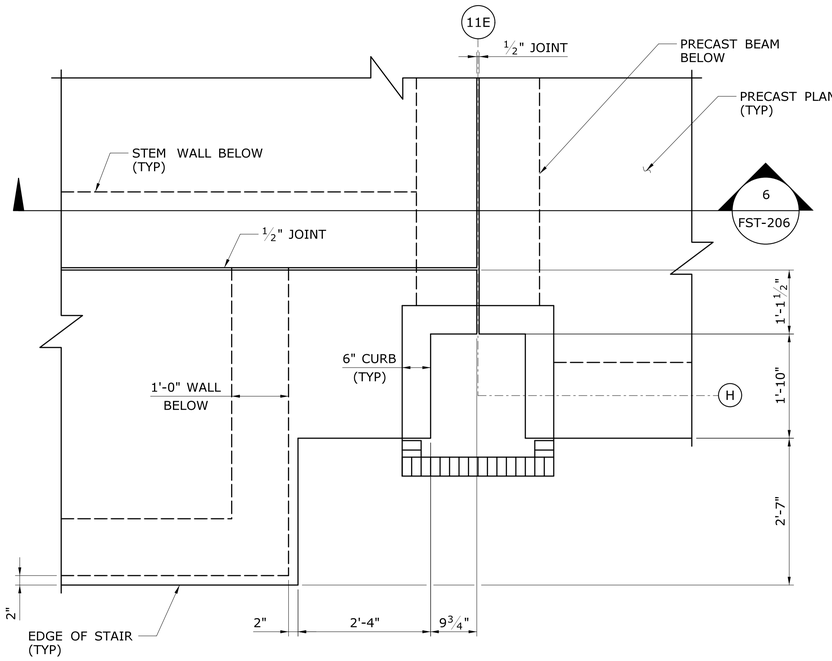
TYPE 2 STAIR

SCALE: 3/8" = 1'-0"



TYPE 3 STAIR

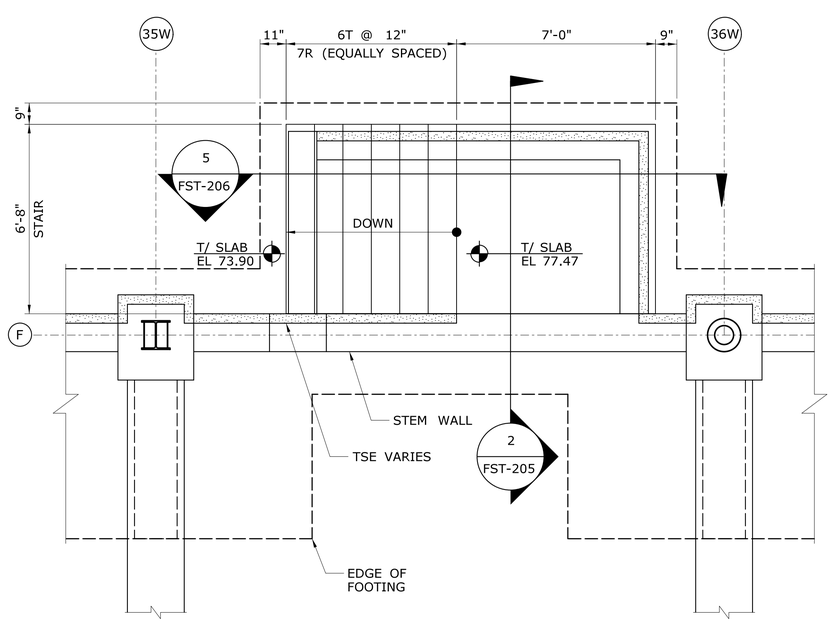
SCALE: 3/8" = 1'-0"



DETAIL

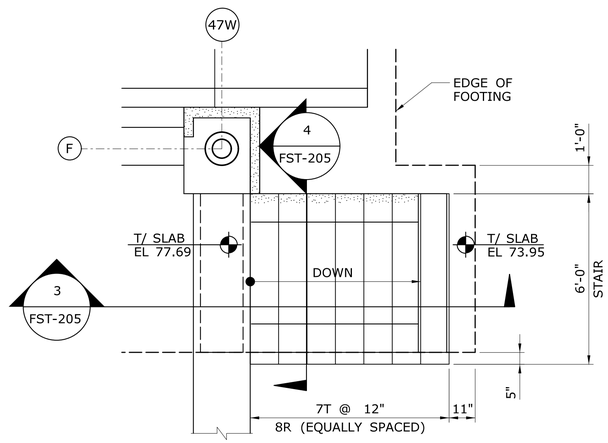
1 / -

SCALE: 3/4" = 1'-0"



TYPE 4 STAIR

SCALE: 3/8" = 1'-0"



TYPE 5 STAIR

SCALE: 3/8" = 1'-0"

NOTES:

1. FOR OVERALL FOOTING DIMENSIONS, SEE "FOUNDATION PLANS".
2. SEE "HYDRONIC SNOW MELT PLANS" FOR SNOW MELT LAYOUT IN STAIRS.

LEGEND:

- 4" BRICK SHELF (HIGHLIGHTED FOR CLARITY)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...106.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: ENLARGED PLATFORM FOUNDATION PLAN 2

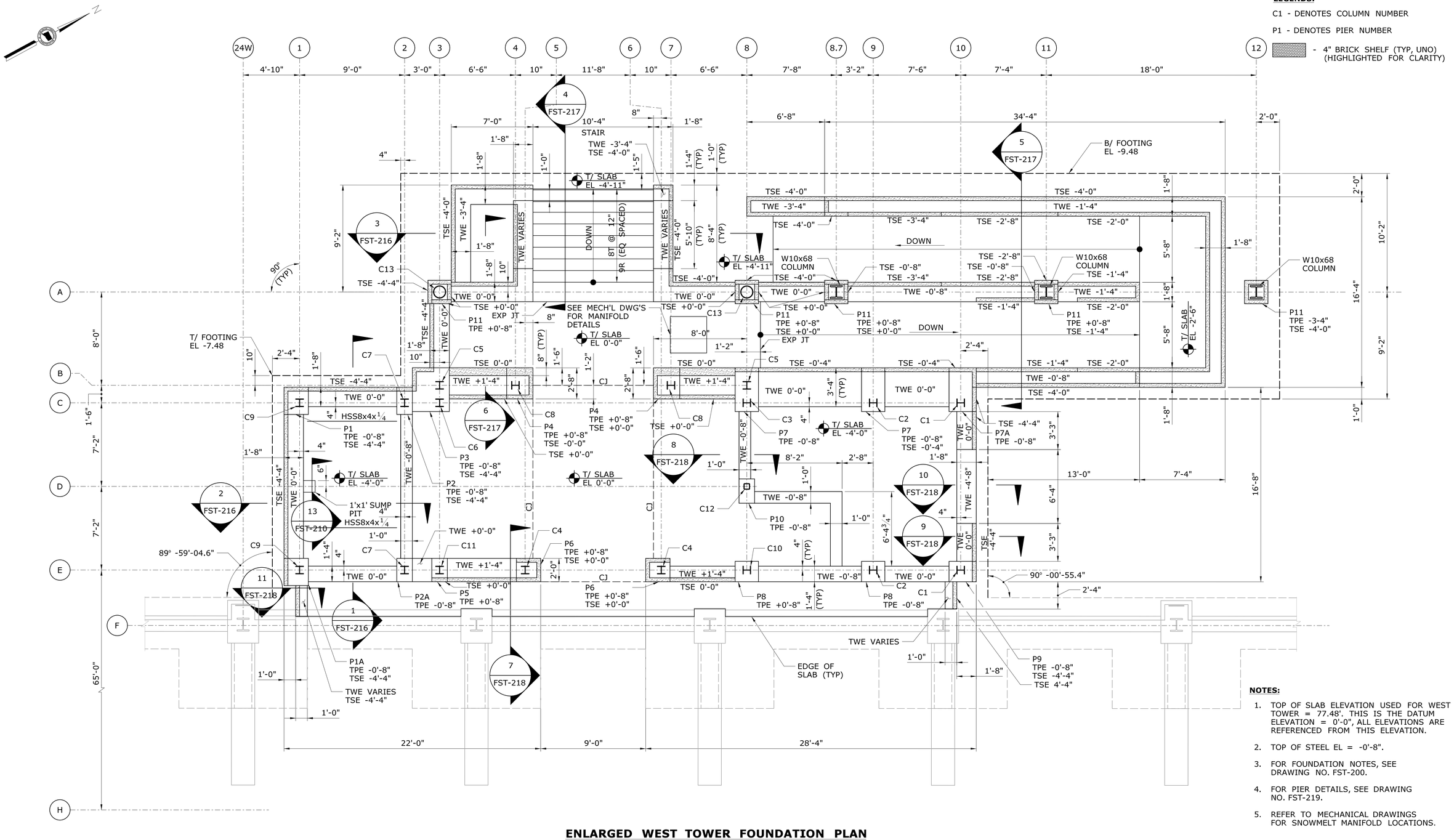
PROJECT NO. 170-3155
DRAWING NO. FST-106
SHEET NO. 04.12.011

LEGENDS:

C1 - DENOTES COLUMN NUMBER

P1 - DENOTES PIER NUMBER

- 4" BRICK SHELF (TYP, UNO) (HIGHLIGHTED FOR CLARITY)



NOTES:

1. TOP OF SLAB ELEVATION USED FOR WEST TOWER = 77.48'. THIS IS THE DATUM ELEVATION = 0'-0", ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
2. TOP OF STEEL EL = -0'-8".
3. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
4. FOR PIER DETAILS, SEE DRAWING NO. FST-219.
5. REFER TO MECHANICAL DRAWINGS FOR SNOWMELT MANIFOLD LOCATIONS.

ENLARGED WEST TOWER FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07_FST...107.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: ENLARGED WEST TOWER FOUNDATION PLAN

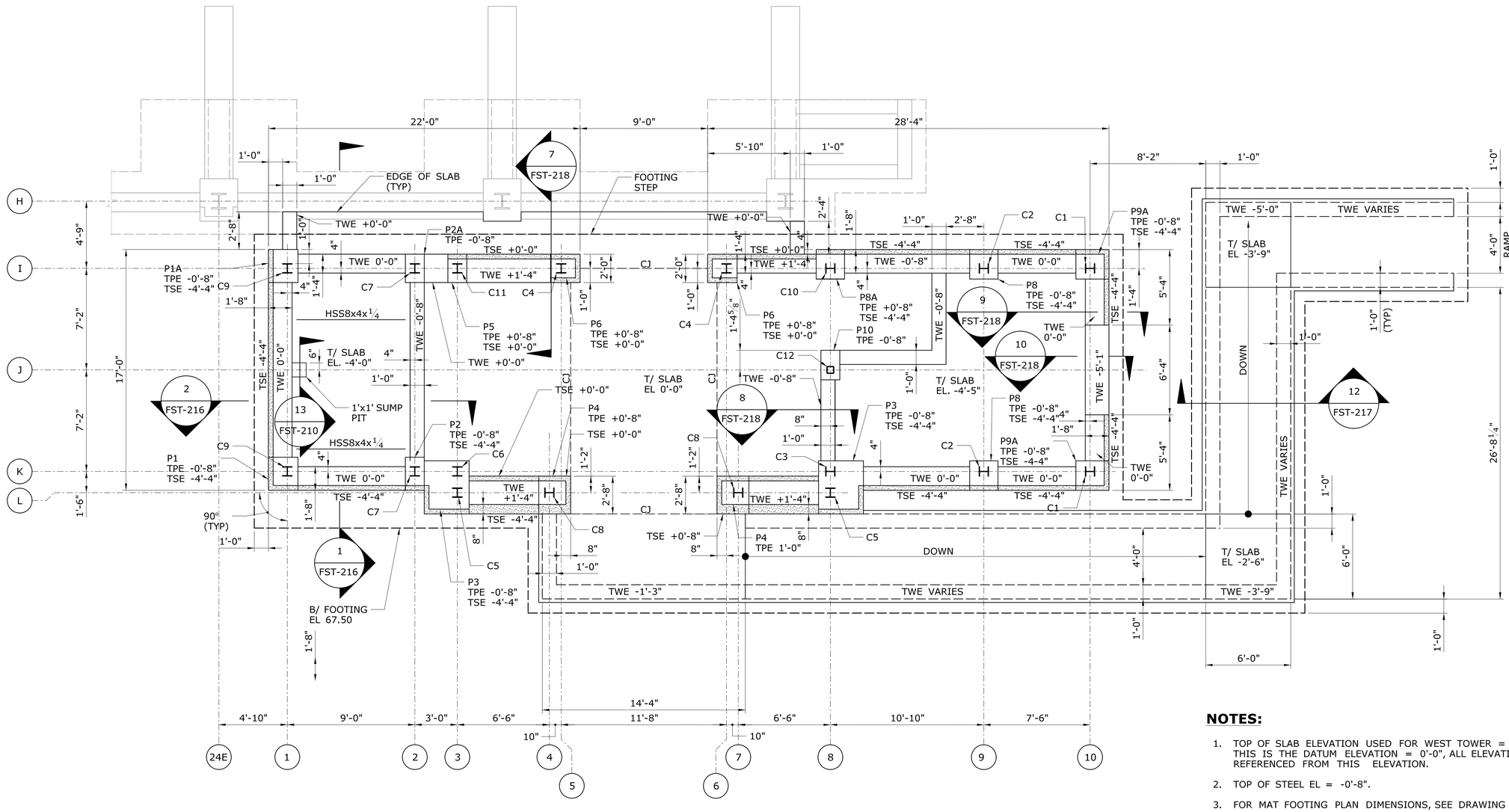
PROJECT NO. 170-3155
DRAWING NO. FST-107
SHEET NO. 04.12.012

LEGENDS:

C1 - DENOTES COLUMN NUMBER

P1 - DENOTES PIER NUMBER

- 4" BRICK SHELF (TYP, UNO) (HIGHLIGHTED FOR CLARITY)



ENLARGED EAST TOWER FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. TOP OF SLAB ELEVATION USED FOR WEST TOWER = 77.62'. THIS IS THE DATUM ELEVATION = 0'-0", ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
2. TOP OF STEEL EL = -0'-8".
3. FOR MAT FOOTING PLAN DIMENSIONS, SEE DRAWING NO. FST-103.
4. FOR FOUNDATION NOTES, SEE DRAWING NO. FST-200.
5. FOR PIER DETAILS, SEE DRAWING NO. FST-219.
6. REFER TO MECHANICAL DRAWINGS FOR SNOWMELT MANIFOLD LOCATIONS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...108.dgn

SIGNATURE/ BLOCK:

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530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

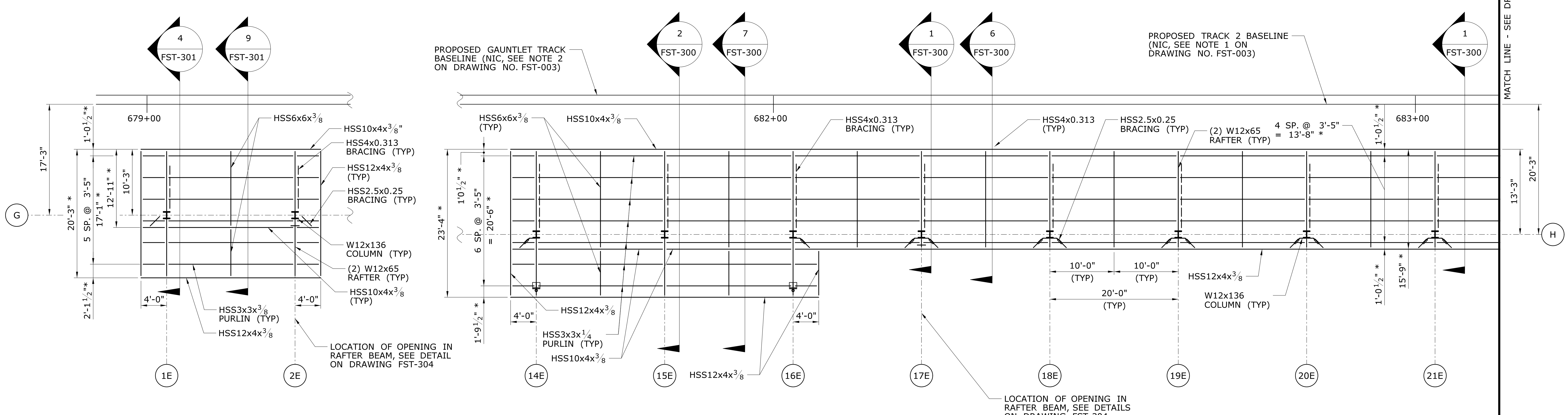
TOWN: WALLINGFORD

DRAWING TITLE: ENLARGED EAST TOWER FOUNDATION PLAN

PROJECT NO. 170-3155
DRAWING NO. FST-108
SHEET NO. 04.12.013

CANOPY FRAMING PLAN NOTES:

1. FOR STRUCTURAL NOTES, SEE DRAWINGS NOS. FST-001 THRU FST-003.
2. ALL DIMENSIONS ARE HORIZONTAL, UNO.
3. FOR CANOPY ROOF DETAILS, SEE ARCHITECTURAL DRAWINGS.
4. FOR CANOPY DETAILS SEE DRAWINGS NO. FST-300 THRU FST-305.
5. SECTION REFERENCES FOR DETAILS ARE TYPICAL FOR ALL CANOPIES, UNO.



* MEASURED PARALLEL TO CANOPY ROOF SLOPE.

PARTIAL CANOPY FRAMING PLAN

SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148...07_FST...109.dgn

SIGNATURE/BLOCK:

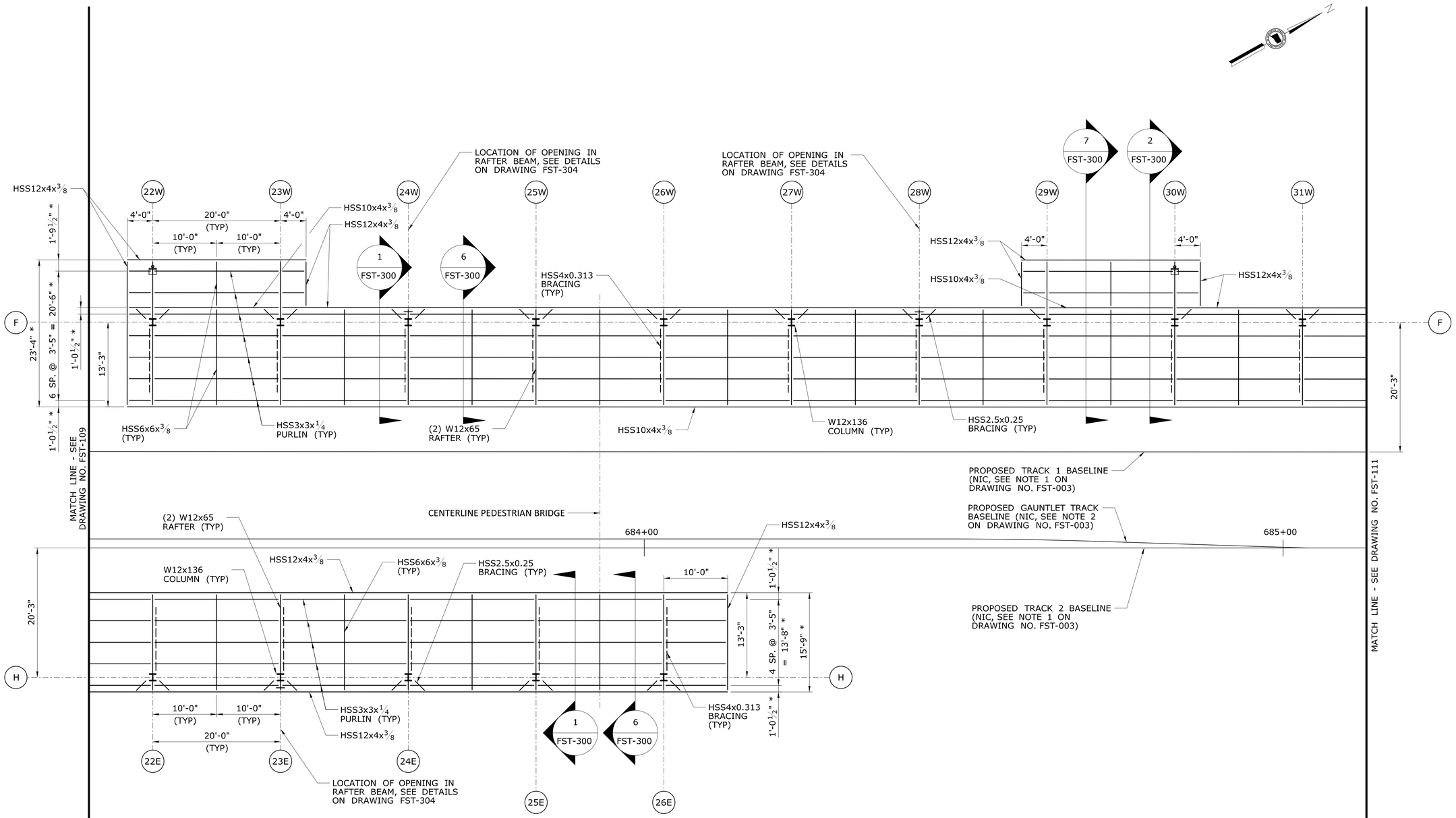
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE: NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: CANOPY FRAMING PLAN 1

PROJECT NO. 170-3155
DRAWING NO. FST-109
SHEET NO. 04.12.014



* MEASURED PARALLEL TO CANOPY ROOF SLOPE.

NOTE:

1. FOR CANOPY FRAMING PLAN NOTES, SEE DRAWING NO. FST-109.

PARTIAL CANOPY FRAMING PLAN

SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...110.dgn

SIGNATURE/ BLOCK:

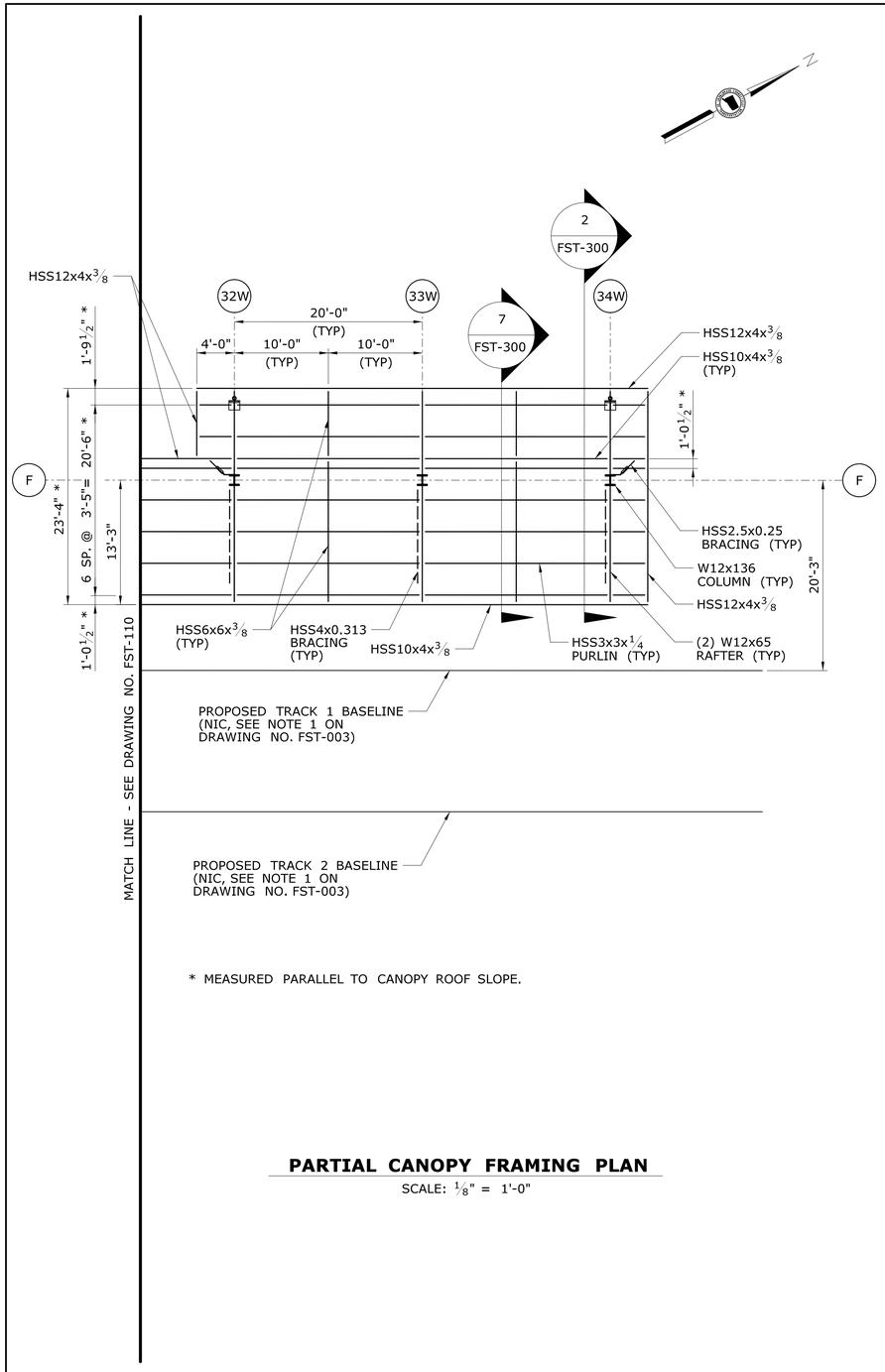
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: CANOPY FRAMING PLAN 2

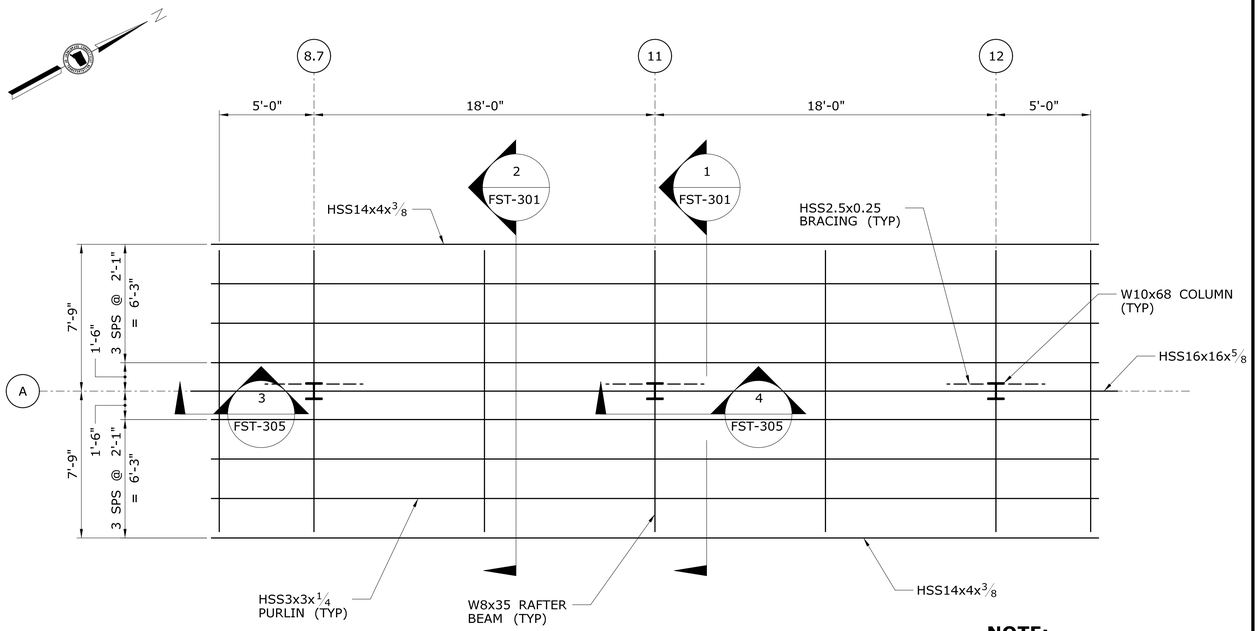
PROJECT NO. 170-3155
DRAWING NO. FST-110
SHEET NO. 04.12.015



* MEASURED PARALLEL TO CANOPY ROOF SLOPE.

PARTIAL CANOPY FRAMING PLAN

SCALE: 1/8" = 1'-0"

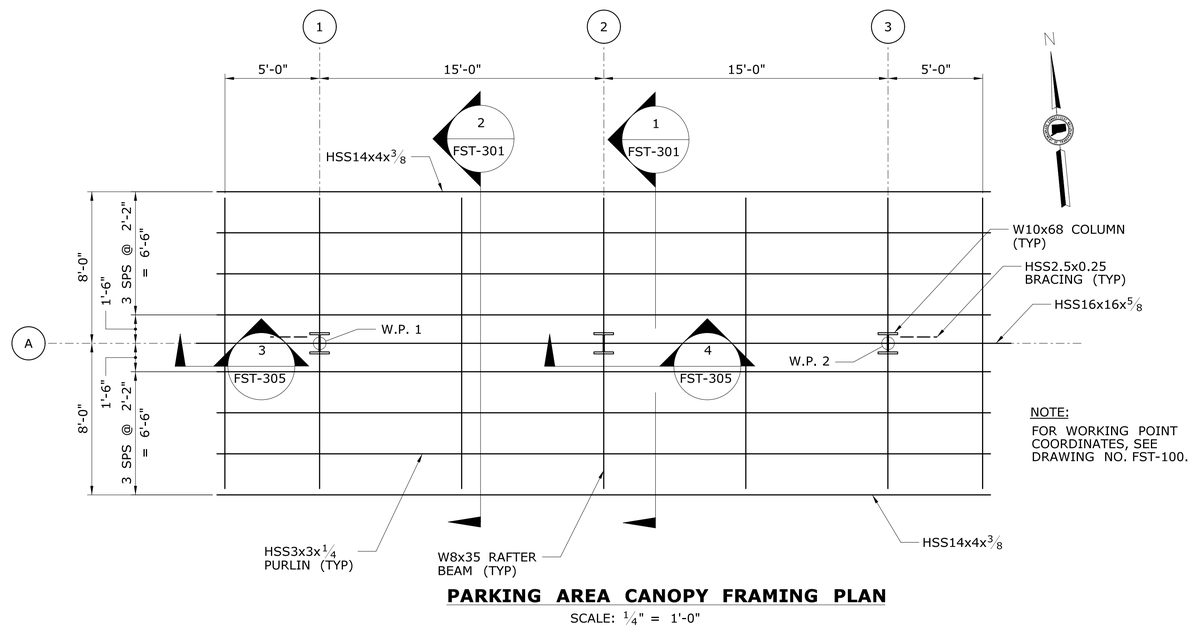


ENTRANCE CANOPY FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTE:

1. FOR CANOPY FRAMING PLAN NOTES, SEE DRAWING NO. FST-109.



PARKING AREA CANOPY FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTE:

FOR WORKING POINT COORDINATES, SEE DRAWING NO. FST-100.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07_FST...111.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION JAN. 1979 LICENSED PROFESSIONAL ENGINEER

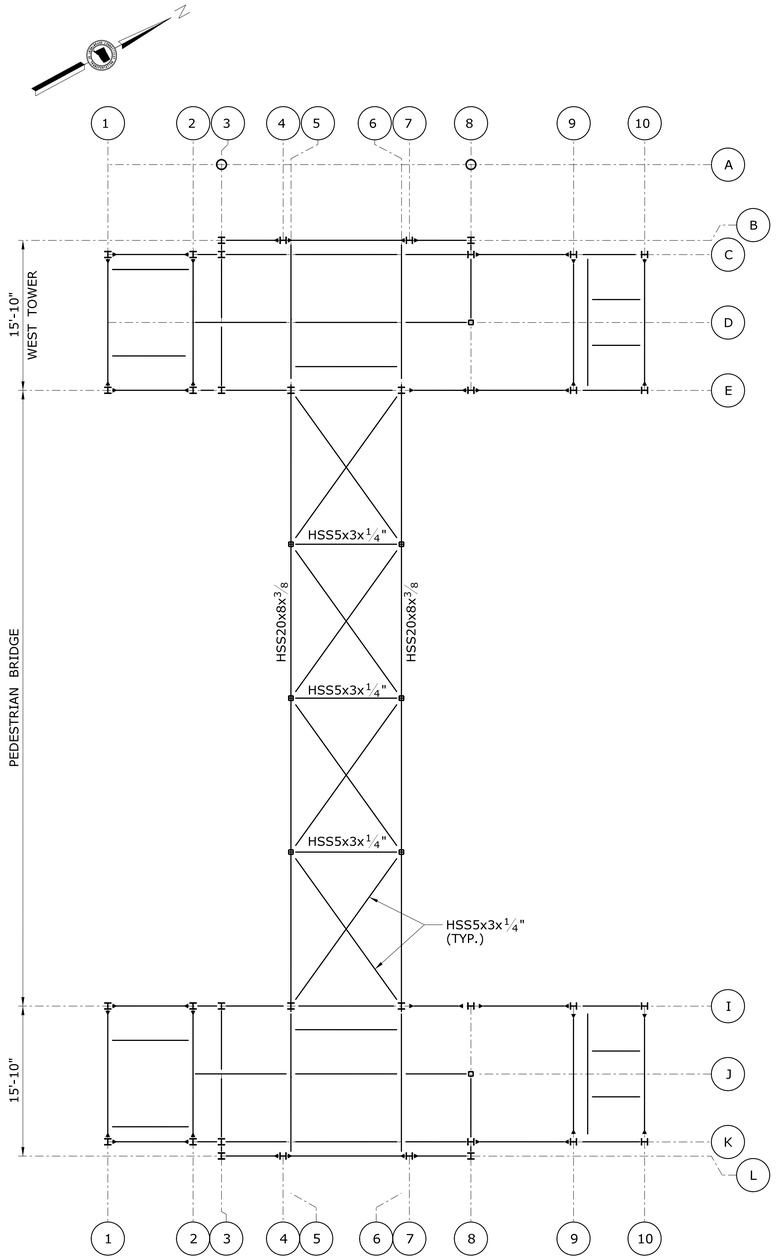
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

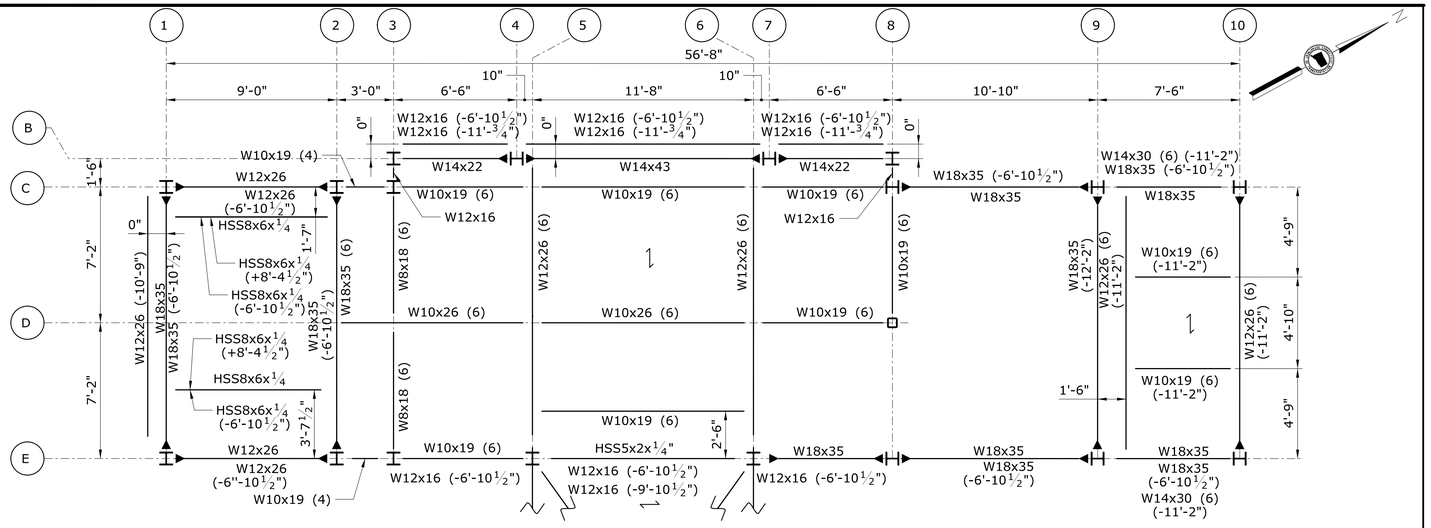
DRAWING TITLE: CANOPY FRAMING PLAN 3

PROJECT NO. 170-3155
DRAWING NO. FST-111
SHEET NO. 04.12.016



PEDESTRIAN OVERPASS FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"



FLOOR FRAMING PLAN - WEST TOWER

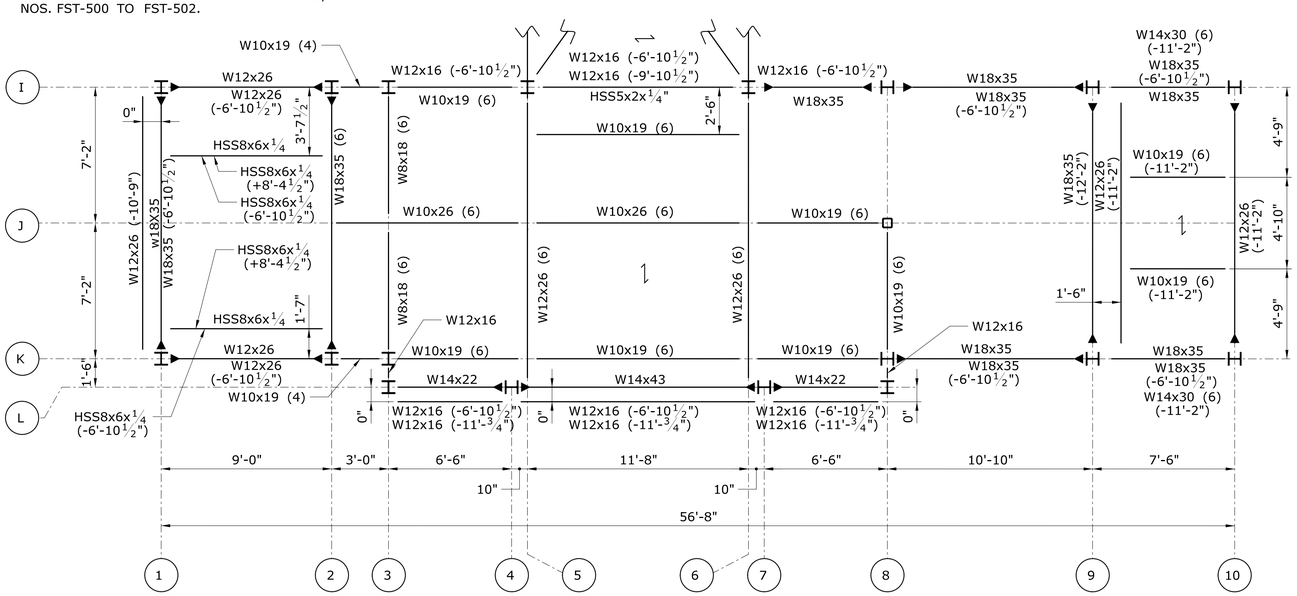
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND STRUCTURAL NOTES, SEE DRAWING NOS. FST-001 TO FST-003.
2. COORDINATE ALL DIMENSIONS AND DETAILS WITH THE ARCHITECTURAL DRAWINGS.
3. FOR PLATFORM PLANS, SEE DRAWING NOS. FST-103 TO FST-105.
4. FOR TOWER ROOF FRAMING PLANS, SEE DRAWING NOS. FST-112 TO FST-113.
5. FOR PEDESTRIAN BRIDGE FRAMING DETAILS, SEE DRAWING NOS. FST-500 TO FST-502.
6. SEE DRAWING NO. FST-115 FOR COLUMN SCHEDULE.
7. ALL ELEVATIONS ARE BASED ON AN ASSUMED VERTICAL DATUM AT T/SLAB EL (0'-0") ON THE PLATFORM LEVEL. T/STEEL EL = (21'-1") FROM DATUM ELEVATION UNLESS NOTED (+X'-XX") FROM THIS BASE T/STEEL ELEVATION.
8. T/SLAB EL AT PEDESTRIAN OVERPASS LEVEL = (21'-6") FROM DATUM ELEVATION.
9. 2" NW CONCRETE OVER 3"x18GA COMPOSITE METAL DECK (TOTAL THICKNESS =5") REINFORCE WITH 6x6-W2.1xW2.1 WWF. DECK SHALL SPAN 3 SPANS WHERE ABLE.

LEGEND:

- COLUMN
- MOMENT CONNECTION
- COLUMN
- DECK SPAN DIRECTION



FLOOR FRAMING PLAN - EAST TOWER

SCALE: 1/4" = 1'-0"

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_112.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · DAVID K. STEPHENS · 18278 · LICENSED PROFESSIONAL ENGINEER

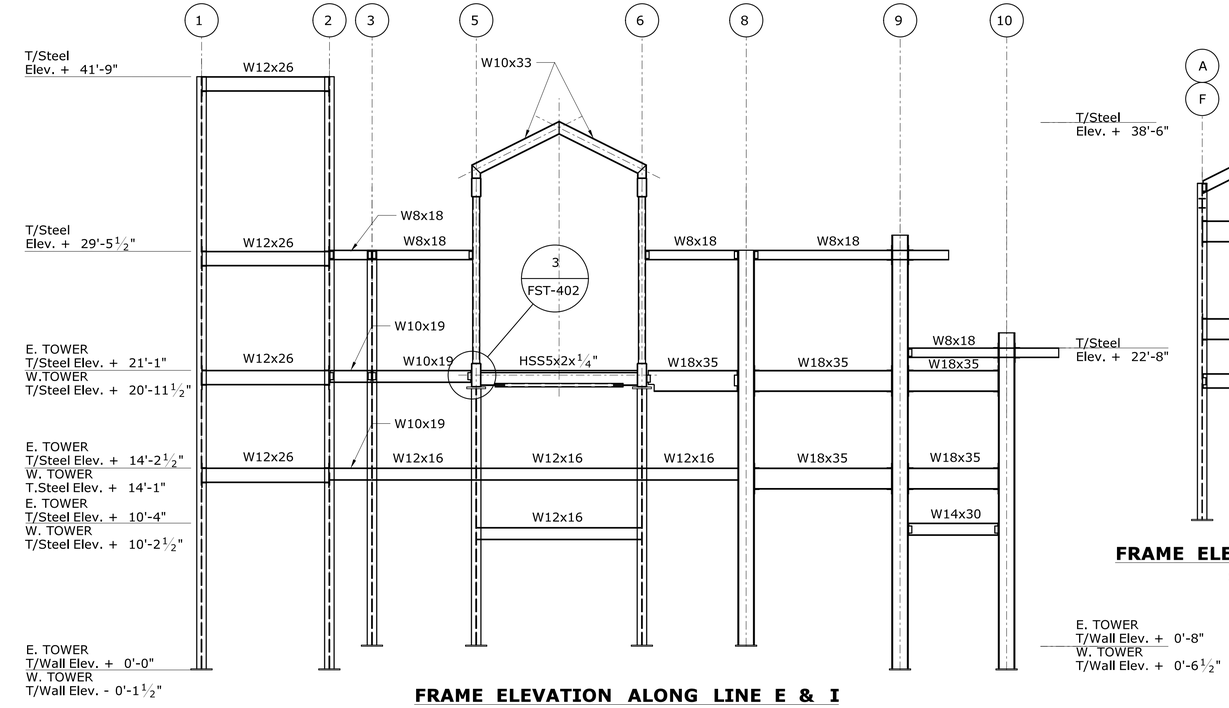
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

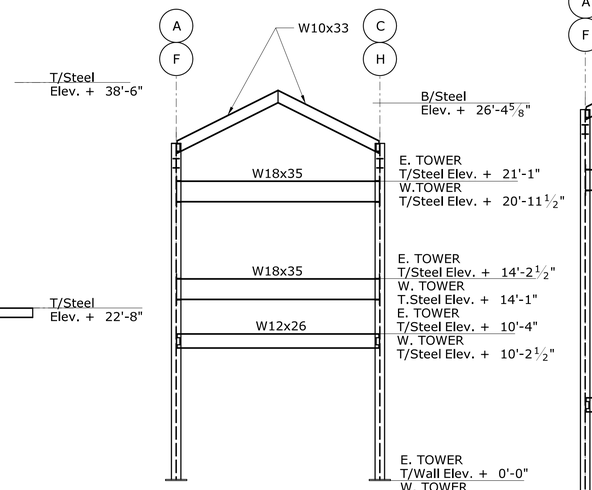
DRAWING TITLE: **TOWER FLOOR FRAMING PLAN**

PROJECT NO. **170-3155**
DRAWING NO. **FST-112**
SHEET NO. **04.12.017**



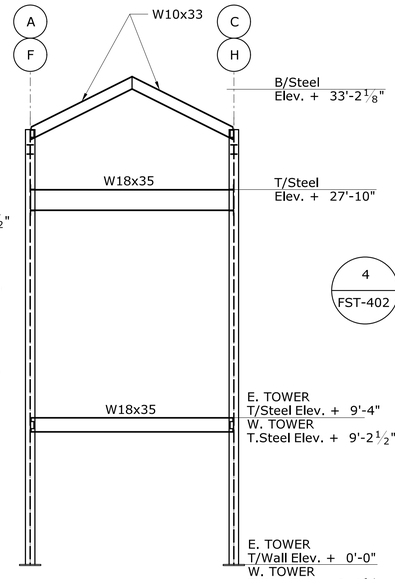
FRAME ELEVATION ALONG LINE E & I

SCALE: 3/16" = 1'-0"



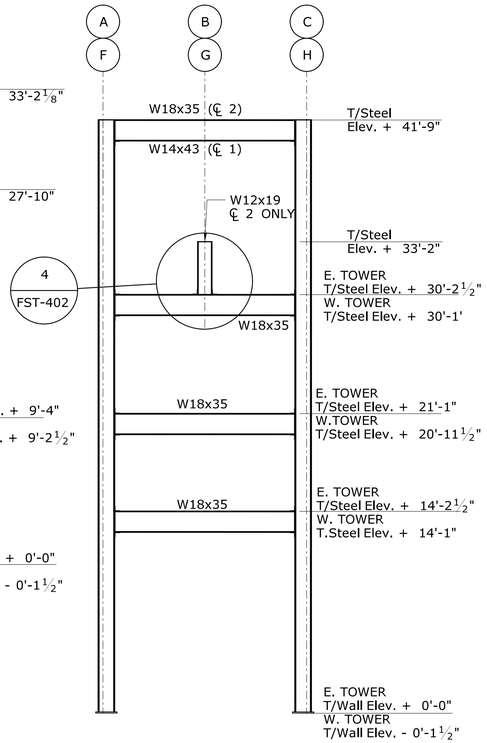
FRAME ELEVATION ALONG LINE 10

SCALE: 3/16" = 1'-0"



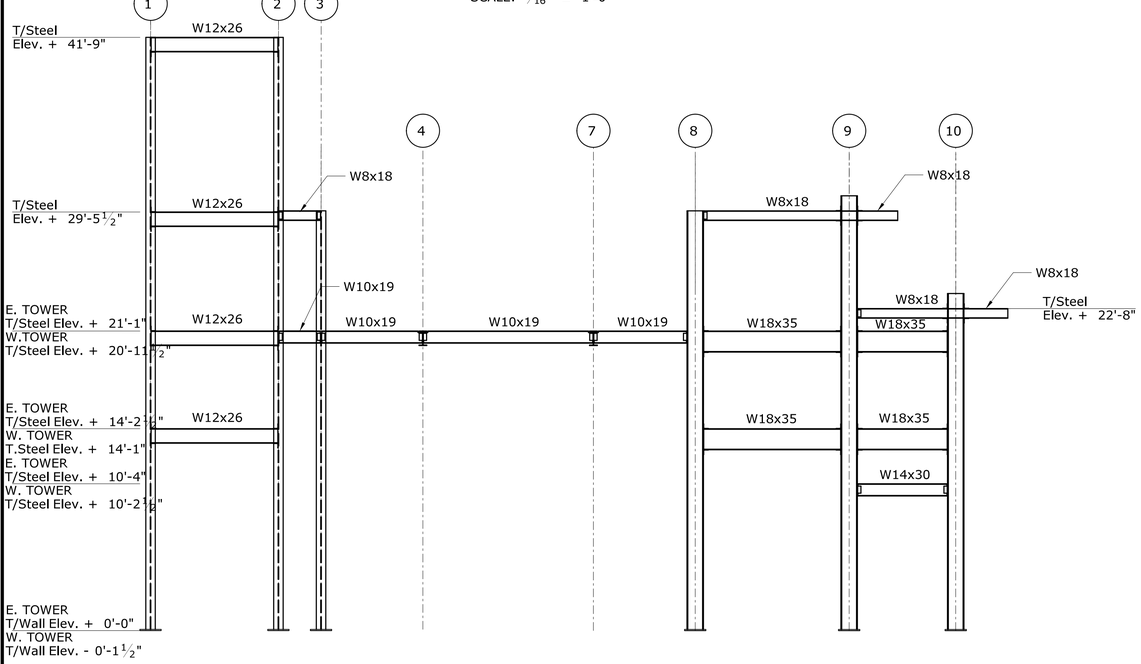
FRAME ELEVATION ALONG LINE 9

SCALE: 3/16" = 1'-0"



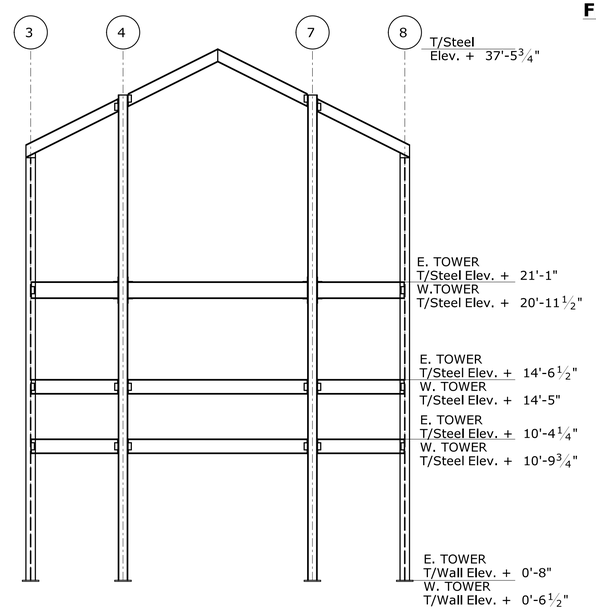
FRAME ELEVATION ALONG LINE 1 & 2

SCALE: 3/16" = 1'-0"



FRAME ELEVATION ALONG LINE C & K

SCALE: 3/16" = 1'-0"



FRAME ELEVATION ALONG LINE B & L

SCALE: 3/16" = 1'-0"

NOTES:

1. FOR STRUCTURAL NOTES, SEE DRAWING NOS. FST-001 TO FST-003.
2. COORDINATE ALL DIMENSIONS AND DETAILS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL ELEVATIONS ARE BASED ON AN ASSUMED VERTICAL DATUM AT T/SLAB EL. (0'-0") OF THE WEST TOWER ON THE PLATFORM LEVEL.
4. SEE DRAWING NO. FST-115 FOR COLUMN SCHEDULE.

REQUIRED MOMENT CONNECTION CAPACITIES

BEAM	MOMENT (k-ft)
W8x18	15
W10x33	20
W14x22	15
W14x30	30
W14x43	10
W18x35	70

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CHECKED BY: H BUI
SCALE AS NOTED

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DEPARTMENT OF TRANSPORTATION

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SIGNATURE/ BLOCK:

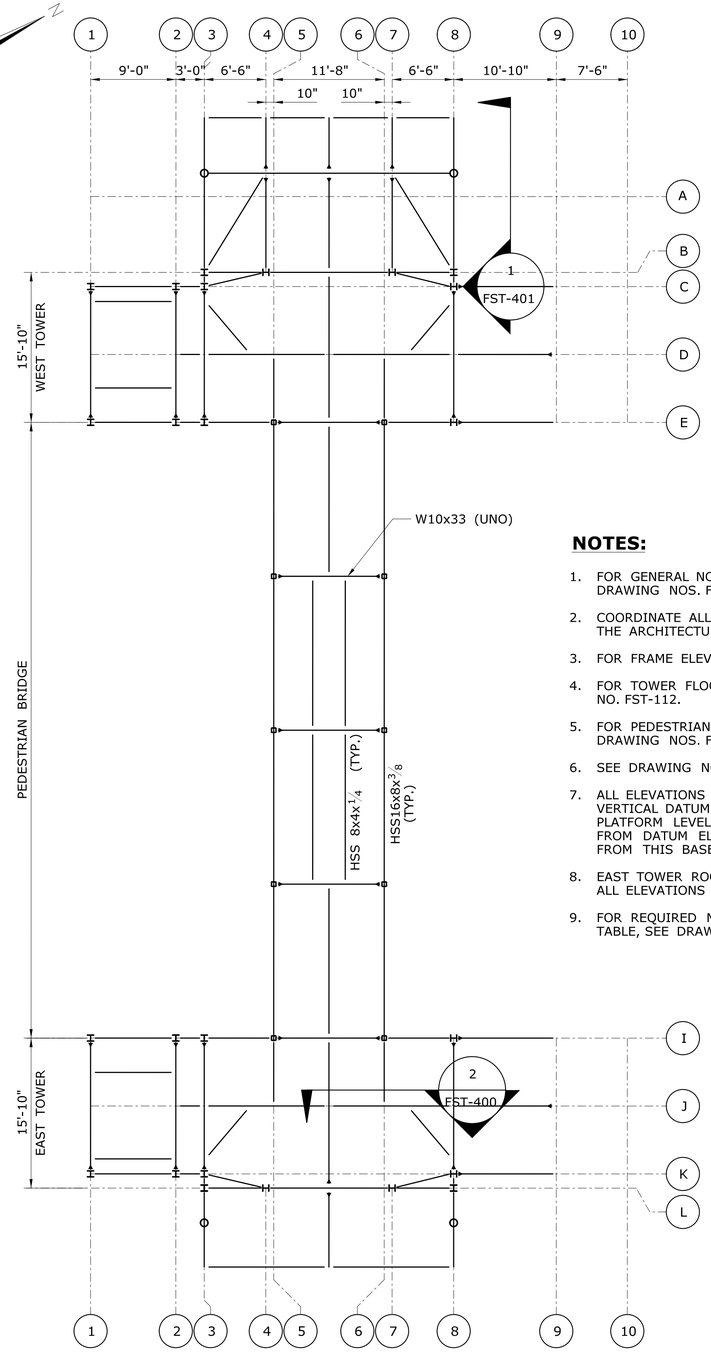
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE:
WEST & EAST TOWER FRAME ELEVATION

PROJECT NO. **170-3155**
DRAWING NO. **FST-113**
SHEET NO. **04.12.018**

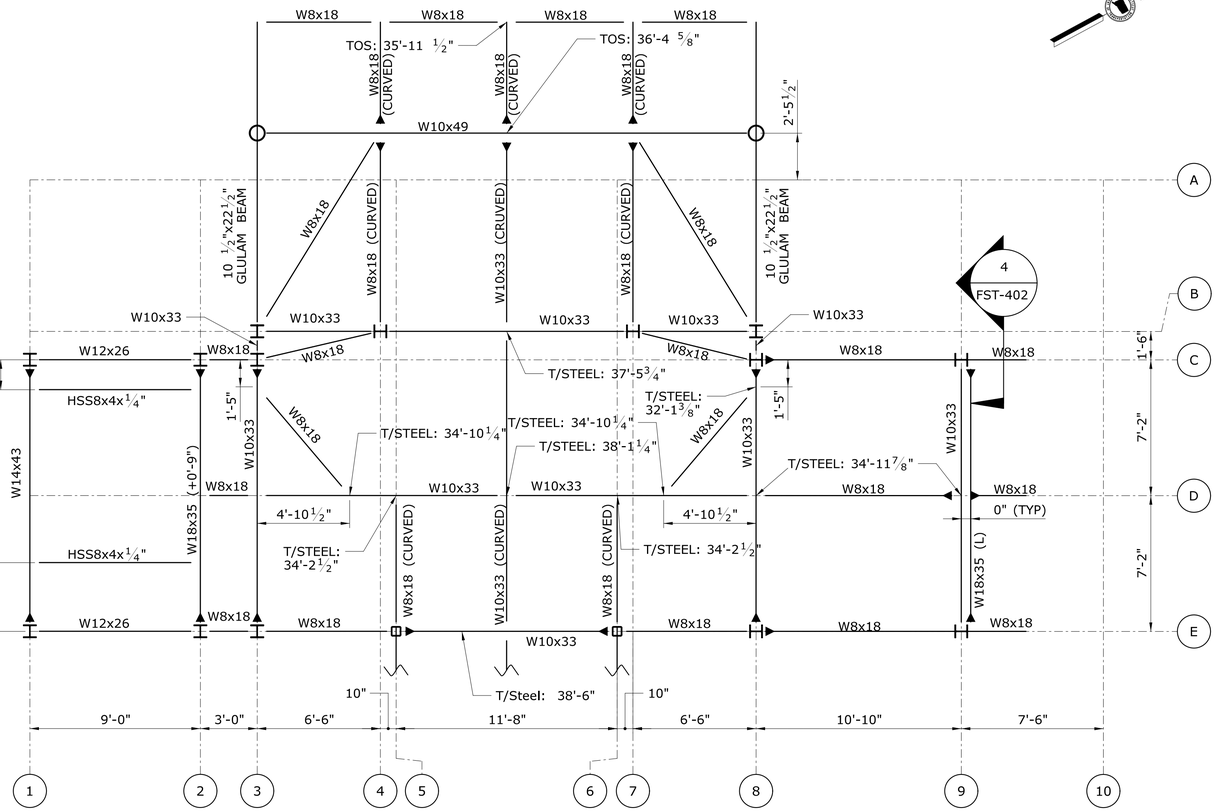


PEDESTRIAN OVERPASS ROOF FRAMING PLAN

SCALE: ¼" = 1'-0"

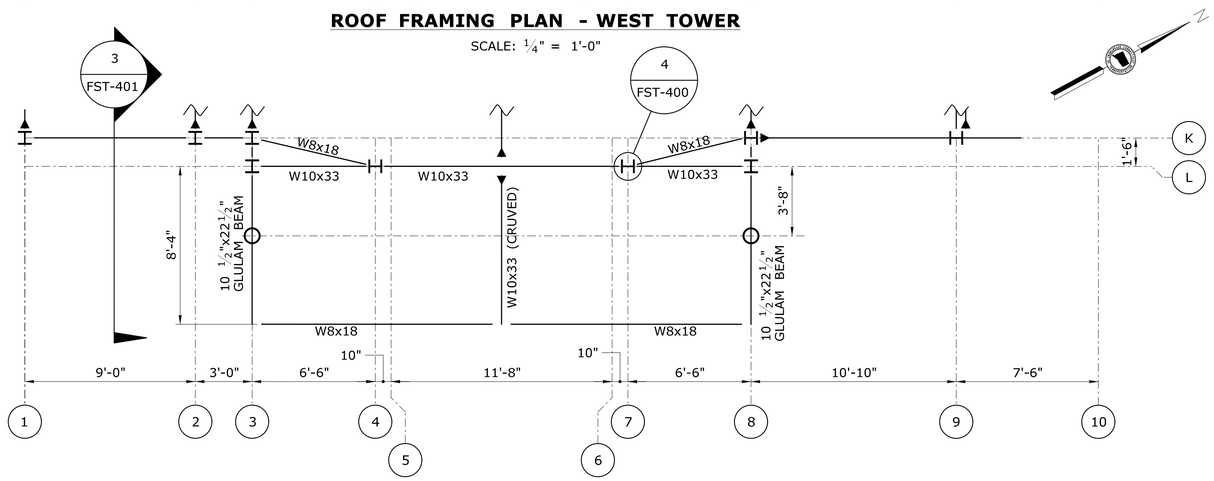
NOTES:

1. FOR GENERAL NOTES AND STRUCTURAL NOTES, SEE DRAWING NOS. FST-001 TO FST-003.
2. COORDINATE ALL DIMENSIONS AND DETAILS WITH THE ARCHITECTURAL DRAWINGS.
3. FOR FRAME ELEVATIONS, SEE DRAWING NO. FST-113.
4. FOR TOWER FLOOR FRAMING PLANS, SEE DRAWING NO. FST-112.
5. FOR PEDESTRIAN BRIDGE FRAMING DETAILS, SEE DRAWING NOS. FST-500 TO FST-502.
6. SEE DRAWING NO. FST-115 FOR COLUMN SCHEDULE.
7. ALL ELEVATIONS ARE BASED ON AN ASSUMED VERTICAL DATUM AT T/SLAB EL (0'-0") ON THE PLATFORM LEVEL BELOW. T/STEEL EL = (29'-5½") FROM DATUM ELEVATION UNLESS NOTED (±X'-XX") FROM THIS BASE T/STEEL ELEVATION.
8. EAST TOWER ROOF FRAMING IS OPPOSITE WEST TOWER. ALL ELEVATIONS ARE IDENTICAL BETWEEN TOWERS.
9. FOR REQUIRED MOMENT CONNECTION CAPACITIES TABLE, SEE DRAWING NO. FST-113.



ROOF FRAMING PLAN - WEST TOWER

SCALE: ¼" = 1'-0"



ROOF FRAMING PLAN - EAST TOWER

SCALE: ¼" = 1'-0"

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DEPARTMENT OF TRANSPORTATION

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SIGNATURE/ BLOCK:

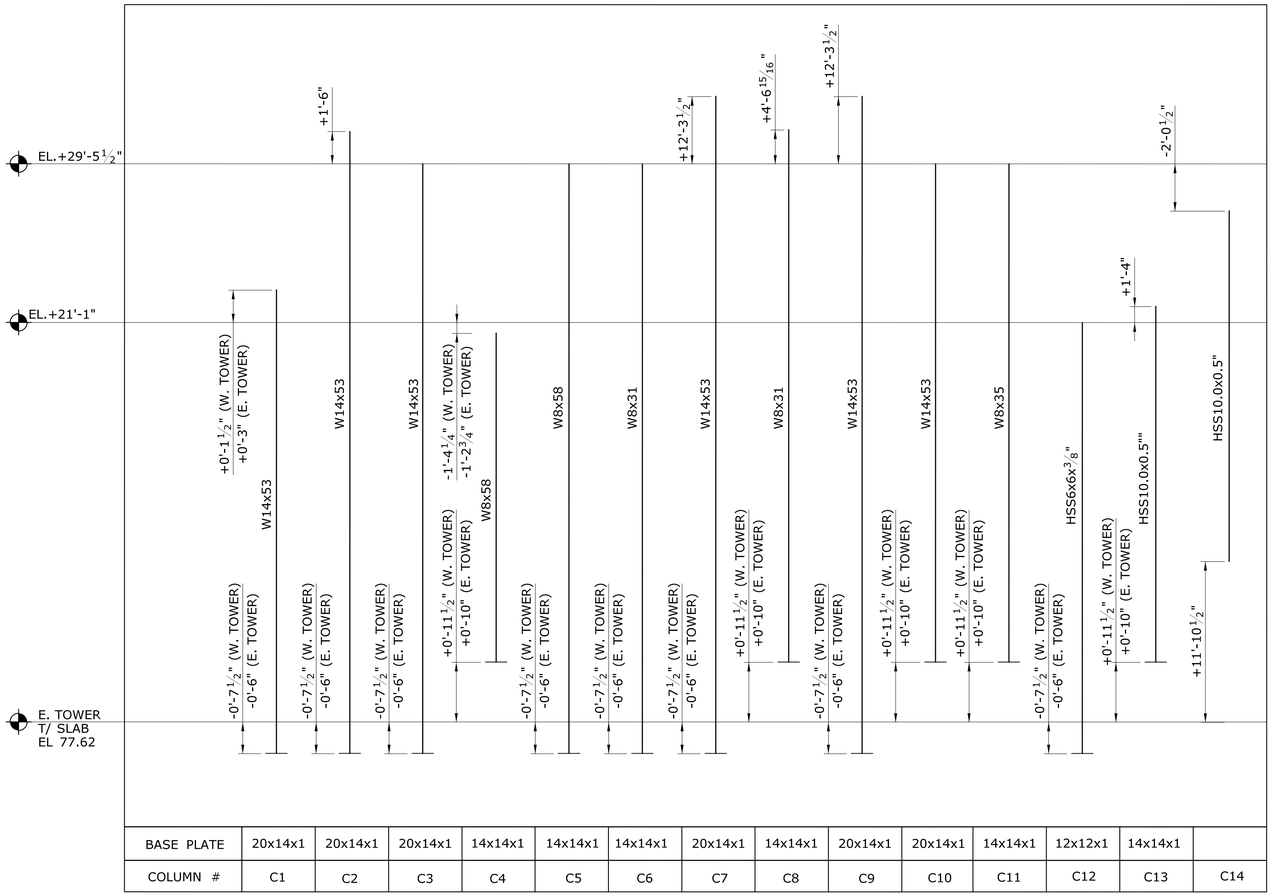
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: TOWER ROOF FRAMING PLAN

PROJECT NO. 170-3155
DRAWING NO. FST-114
SHEET NO. 04.12.019



BASE PLATE	20x14x1	20x14x1	20x14x1	14x14x1	14x14x1	14x14x1	20x14x1	14x14x1	20x14x1	20x14x1	14x14x1	12x12x1	14x14x1	
COLUMN #	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14

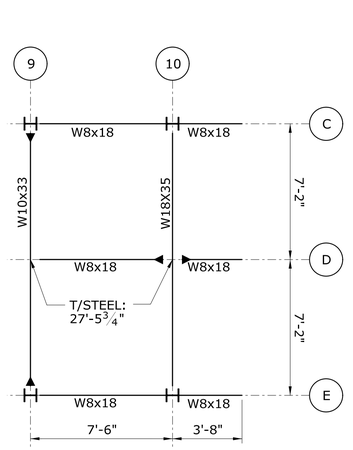
NOTE:
SEE FOUNDATION PLANS NOS. FST-107 AND FST-108 FOR COLUMN LOCATIONS.
ELEVATIONS ARE TO BOTTOM OF BASE PLATE.

COLUMN SCHEDULE

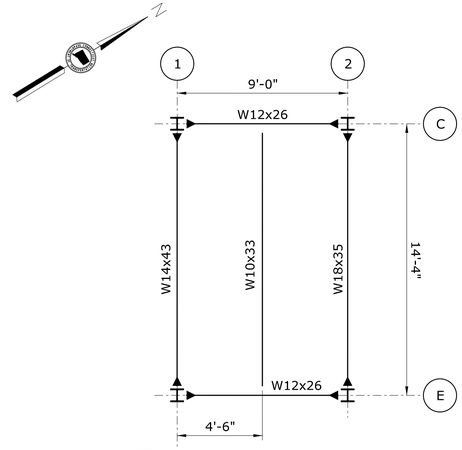
N.T.S.

BASEPLATE DETAIL

SCALE: 1½" = 1'-0"



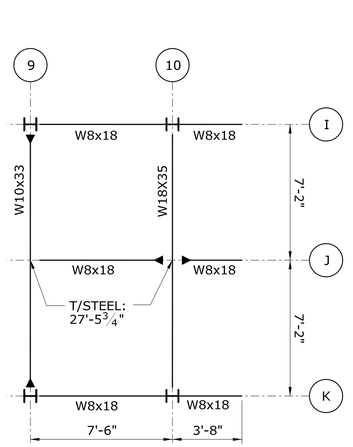
NOTE:
T/STEEL EL. IS 22'-8" UNO.



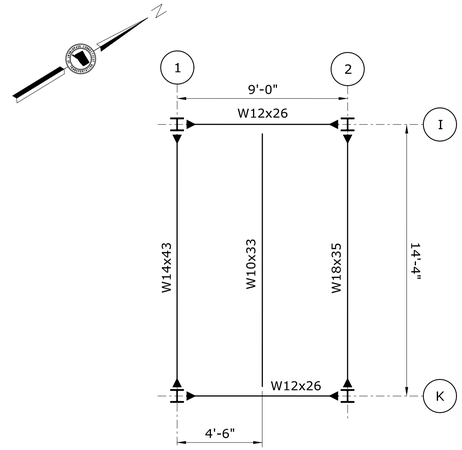
NOTE:
T/STEEL EL. IS 41'-9" UNO.

ROOF FRAMING PLAN - WEST TOWER

SCALE: ¼" = 1'-0"



NOTE:
T/STEEL EL. IS 22'-8" UNO.



NOTE:
T/STEEL EL. IS 41'-9" UNO.

ROOF FRAMING PLAN - EAST TOWER

SCALE: ¼" = 1'-0"

NOTE:

FOR REQUIRED MOMENT CONNECTION CAPACITIES TABLE, SEE DRAWING NO. FST-113.

LEGEND:

- COLUMN
- MOMENT CONNECTION
- COLUMN

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Plotted Date: 1/28/2014

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Filename: ...\FA_CGR_CPS_0170-2296_148_-07_FST_-115.dgn

SIGNATURE/ BLOCK:

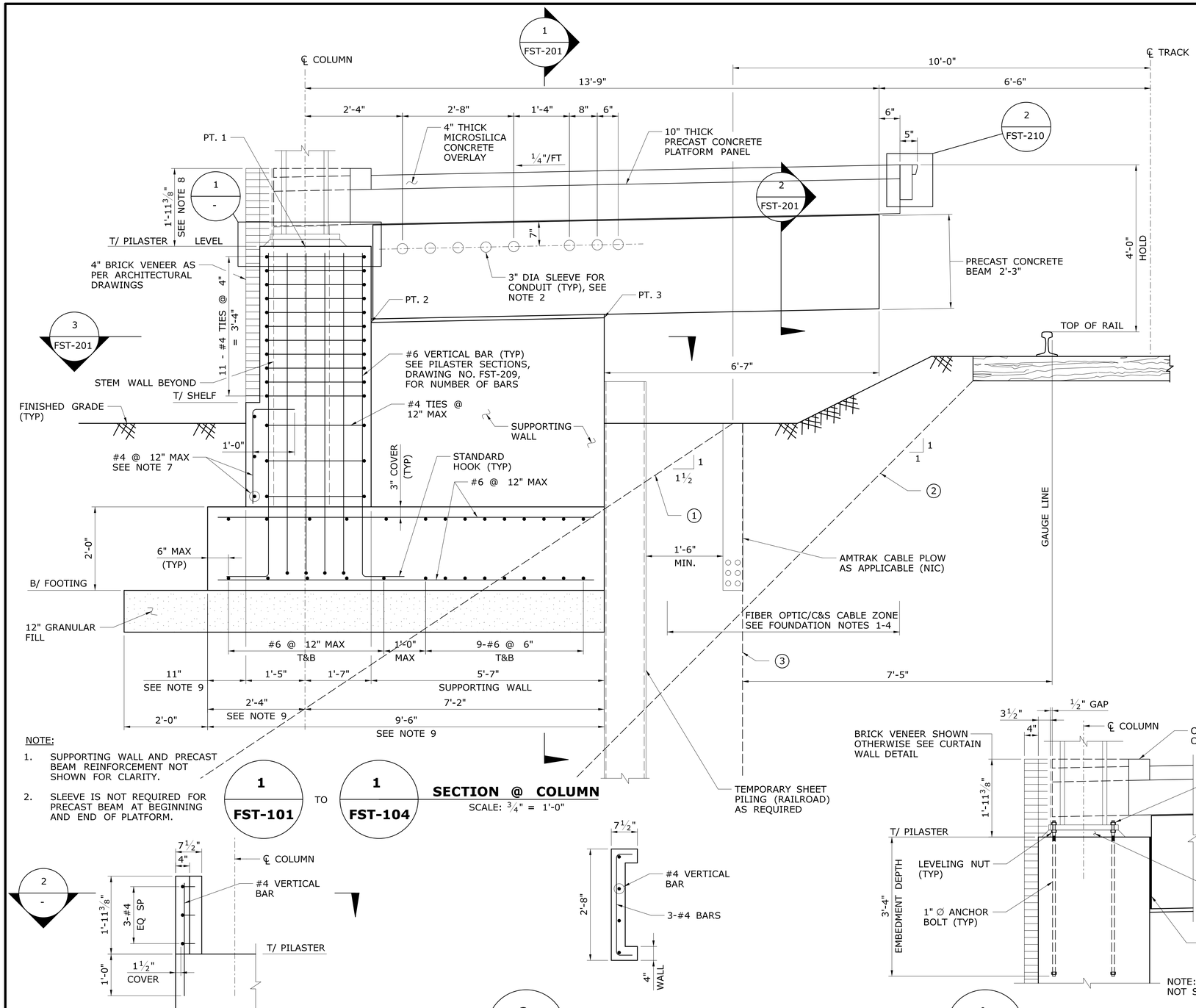
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE:
TOWER COLUMN SCHEDULE

PROJECT NO. 170-3155
DRAWING NO. FST-115
SHEET NO. 04.12.020



NOTE:

1. SUPPORTING WALL AND PRECAST BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.
2. SLEEVE IS NOT REQUIRED FOR PRECAST BEAM AT BEGINNING AND END OF PLATFORM.

1 / FST-101 TO 1 / FST-104

SECTION @ COLUMN

SCALE: 3/4" = 1'-0"

CURTAIN WALL DETAIL

SCALE: 3/4" = 1'-0"

2 / -

CURTAIN WALL SECTION

SCALE: 3/4" = 1'-0"

1 / -

COLUMN FOUNDATION DETAIL

SCALE: 3/4" = 1'-0"

FOUNDATION NOTES:

1. SEE SURVEY PLAN FOR INFORMATION REGARDING ALL EXISTING UTILITY LINE (FIBER OPTIC CABLES, AMTRAK COMMUNICATION AND SIGNAL LINES, ETC). UTILITY OWNERS SHALL BE CONTACTED A MINIMUM OF 14 DAYS IN ADVANCE OF SHEET PILING INSTALLATION OR EXCAVATION AND BE GRANTED ACCESS TO WORK AREA FOR OVERSIGHT OF THE WORK. DRIVING OF SHEETING MAY NOT COMMENCE UNTIL THE UTILITY OWNER AND THE ENGINEER ARE SATISFIED THAT THE WORK WILL NOT ADVERSELY AFFECT THE UTILITY.
2. THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
3. SHEET PILING INSTALLATION SHALL BE IN ACCORDANCE WITH AMTRAK STANDARD ENGINEERING PRACTICES "REQUIREMENTS FOR TEMPORARY SHEETING AND SHORING TO SUPPORT AMTRAK TRACKS", AND WITH THE SPECIAL PROVISION "TEMPORARY SHEET PILING (RAILROAD)". AN APPROVED TRACK MONITORING PROGRAM BY AMTRAK MUST BE IMPLEMENTED DURING THE INSTALLATION OF SHEET PILING.
4. HAND DIG EXPLORATORY TRENCHES IN THE AREA OF COMMUNICATION AND SIGNAL CABLES AND OTHER UTILITIES PRIOR TO INSTALLING SHEET PILING.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 3'-6" FROM FINISH GRADE TO BOTTOM OF FOOTING.
6. THE CONTRACTOR SHALL OBTAIN OUTSIDE RAIL ELEVATION AT ALL COLUMN LINE LOCATIONS. ESTABLISHED TOP OF PLATFORM ELEVATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CONSTRUCTION WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL ON THE ENGINEER.

NOTES:

1. REFER TO "FOUNDATION" PLANS FOR OVERALL FOUNDATION LAYOUT, HORIZONTAL LIMITS OF SHEET PILING, BOTTOM OF FOOTING ELEVATIONS, TOP OF SHELF ELEVATIONS, AND BRICK VENEER LOCATIONS.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM 2" CLEAR COVER UNLESS NOTED OTHERWISE.
3. SEE "GRADING AND DRAINAGE" PLANS FOR FINAL GRADE AT PLATFORM LOCATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR APPROXIMATE TOP OF RAIL ELEVATIONS ALONG PLATFORM.
5. SEE TABLE ON DRAWING FST-210 FOR PT. 1 THRU PT. 3 ELEVATIONS.
6. 4" BRICK VENEER IS SHOWN. IF BRICK VENEER IS NOT REQUIRED, OMIT SHELF AND RE-ARRANGE THE VERTICAL REINFORCEMENT AS REQUIRED, PROVIDE A MINIMUM 2" CLEAR COVER.
7. OMIT THESE BARS AT LOCATION WHERE BRICK VENEER IS NOT REQUIRED.
8. 4" BRICK VENEER IS SHOWN. AT LOCATION WHERE BRICK VENEER IS NOT REQUIRED, REPLACE BRICK VENEER WITH A 4" THICK CURTAIN WALL.
9. THESE DIMENSIONS ARE SHOWN AT TYPICAL COLUMN SECTION. DIMENSIONS MIGHT VARY AT LOCATIONS ADJACENT TO STAIR AND ELEVATOR TOWER, SIDEWALK STAIRS, SIDEWALK RAMPS AND SNOW MELT MECHANICAL ROOM. REFER TO "FOUNDATION" PLANS FOR OVERALL DIMENSIONS.
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR THE PRECAST BEAMS UNTIL THE SPLICE COUPLERS ARE GROUTED AND HAVE REACHED A MINIMUM STRENGTH AS RECOMMENDED BY THE GROUT MANUFACTURER.

SHEET PILING REQUIREMENTS:

1. "THEORETICAL RAILROAD EMBANKMENT LINE". SHEETING/SHORING REQUIRED INSIDE THIS AREA.
2. "THEORETICAL UNDERGROUND TRACK DISTURBANCE LINE". EXCAVATIONS WHOSE BOTTOM EXTEND INTO THIS ZONE REQUIRE SHEETING TO BE LEFT IN PLACE AND CUT OFF PER AMTRAK REQUIREMENTS.
3. AMTRAK "TOE OF BALLAST SLOPE LINE". NO SHEETING/SHORING WITHIN THIS AREA.
4. SHEET PILING SHALL BE DESIGNED FOR ALL APPLICABLE LOADS INCLUDING THE LIVE LOAD EFFECTS OF THE COOPER E-80.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...200.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION JAC 19778 LICENSED PROFESSIONAL ENGINEER

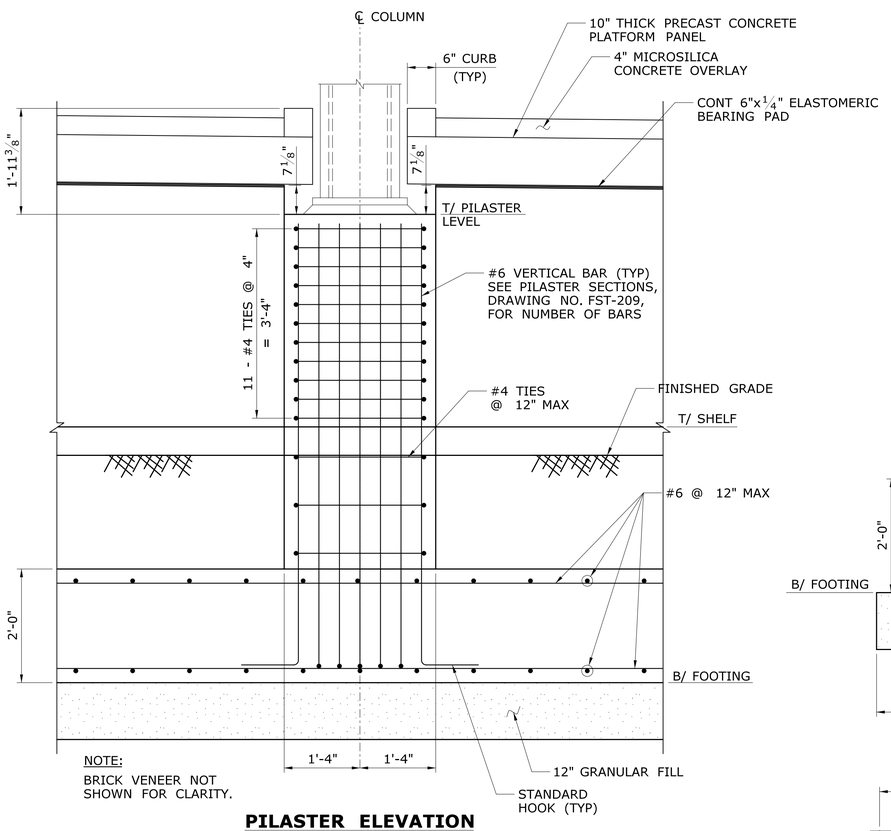
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

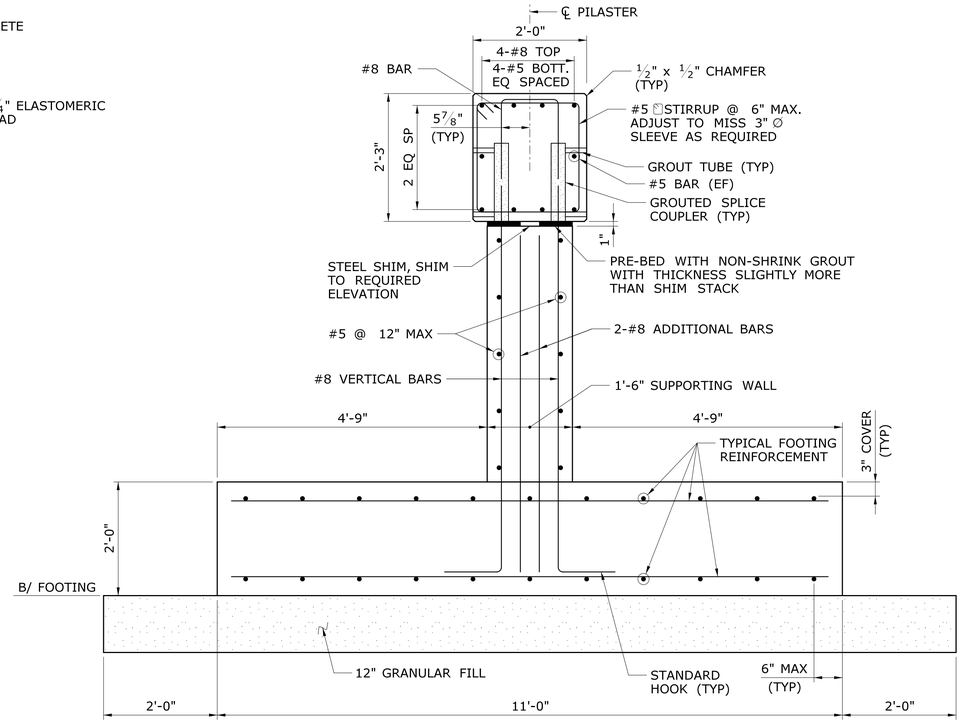
DRAWING TITLE: **PLATFORM SECTIONS & DETAILS 1**

PROJECT NO. **170-3155**
DRAWING NO. **FST-200**
SHEET NO. **04.12.021**



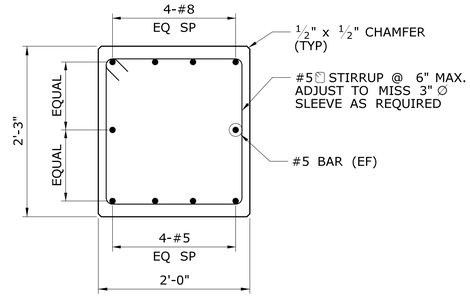
NOTE:
BRICK VENEER NOT SHOWN FOR CLARITY.

PILASTER ELEVATION
SCALE: ¾" = 1'-0"

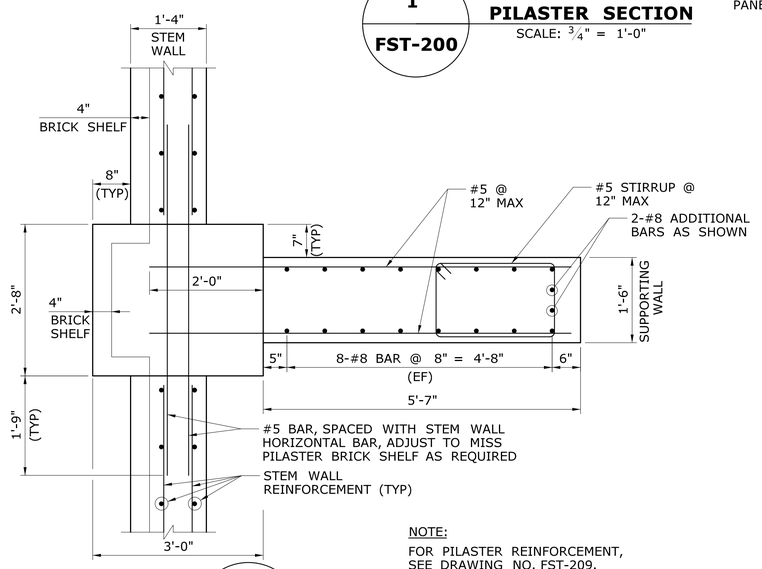


1 FST-200 **PILASTER SECTION**
SCALE: ¾" = 1'-0"

NOTE:
COLUMN AND PRECAST CONCRETE PLATFORM PANELS NOT SHOWN FOR CLARITY.

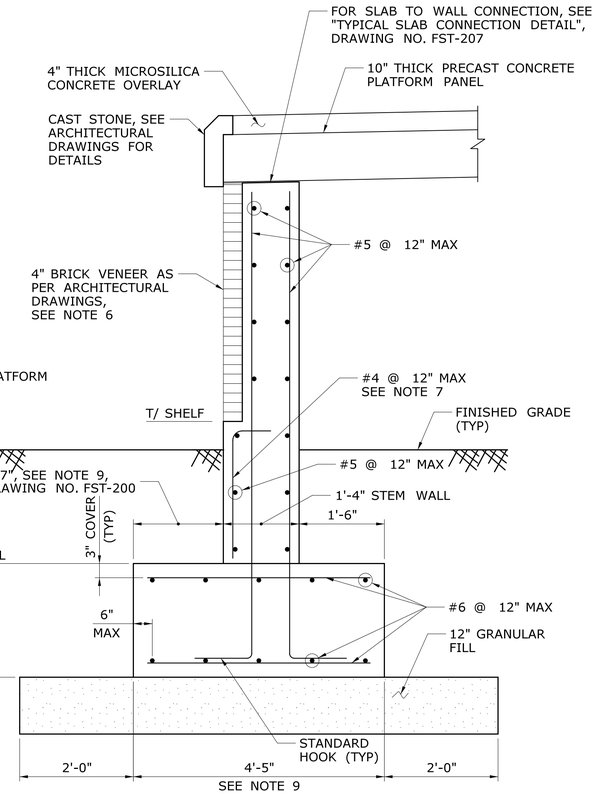


2 FST-200 **2 FST-202** **TYPICAL PRECAST CONCRETE BEAM**
SCALE: 1" = 1'-0"



NOTE:
FOR PILASTER REINFORCEMENT, SEE DRAWING NO. FST-209.

3 FST-200 **PILASTER SECTION**
SCALE: ¾" = 1'-0"



NOTE:
FOR NOTES, SEE DRAWING NO. FST-201

2 FST-100 TO **2 FST-104** **SECTION**
SCALE: ¾" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_201.dgn

SIGNATURE/ BLOCK:

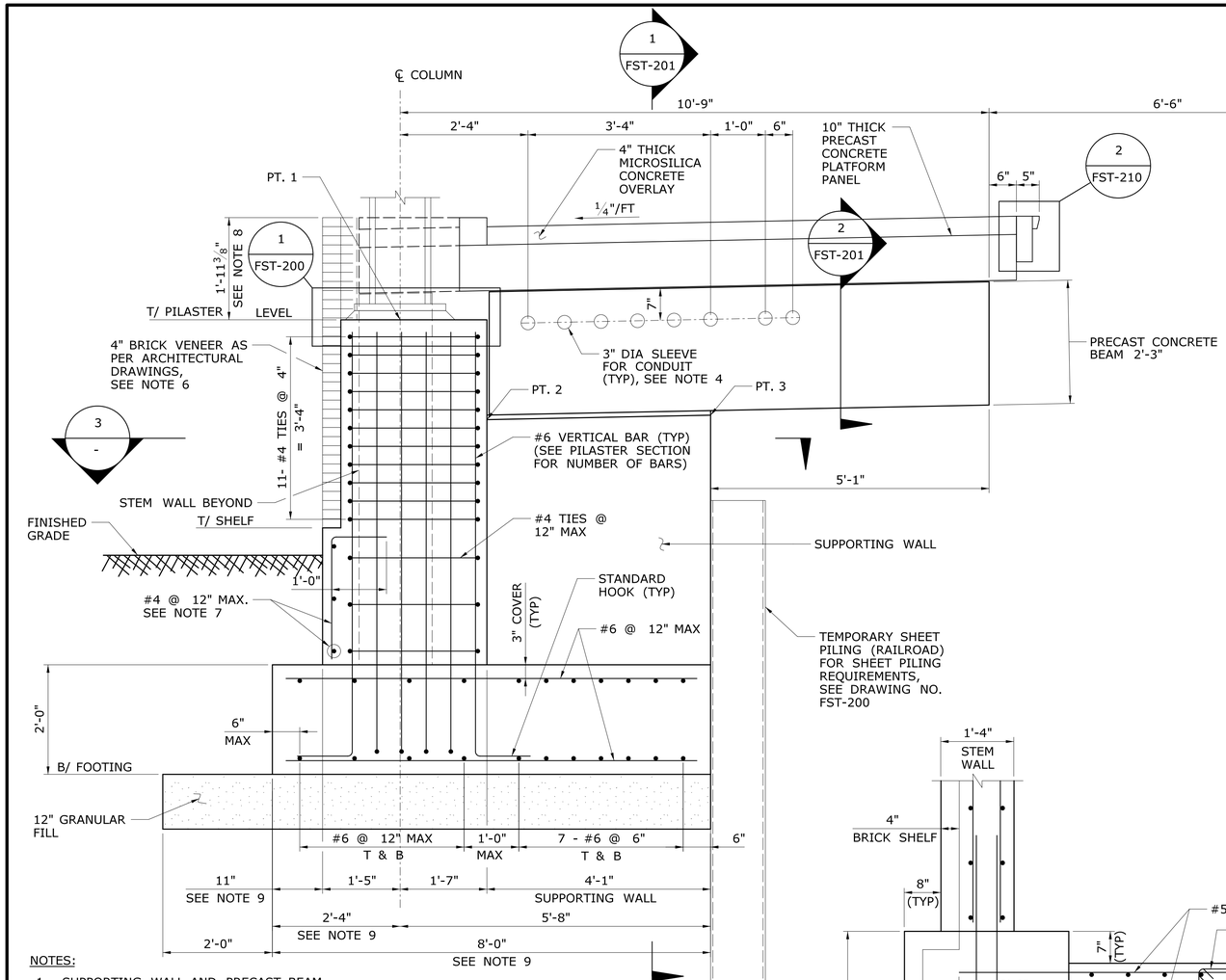
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: PLATFORM SECTIONS & DETAILS 2

PROJECT NO. 170-3155
DRAWING NO. FST-201
SHEET NO. 04.12.022



NOTES:

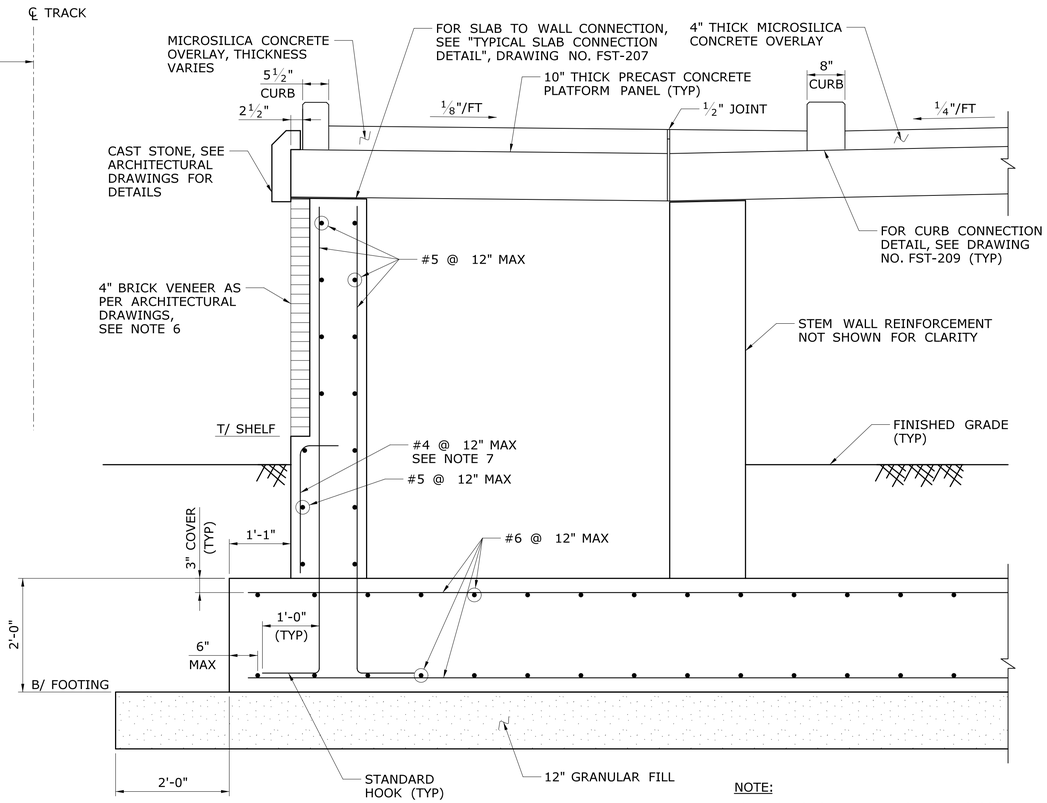
1. SUPPORTING WALL AND PRECAST BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.
2. FOR NOTES, SEE DRAWING NO. FST-200.
3. FOR PILASTER REINFORCEMENT, SEE DRAWING NO. FST-209.
4. SLEEVE IS NOT REQUIRED FOR PRECAST BEAM AT BEGINNING AND END OF RAFTER.

3 / FST-100 — SECTION @ COLUMN
SCALE: ¾" = 1'-0"

NOTE:

FOR PILASTER REINFORCEMENT, SEE DRAWING NO. FST-209.

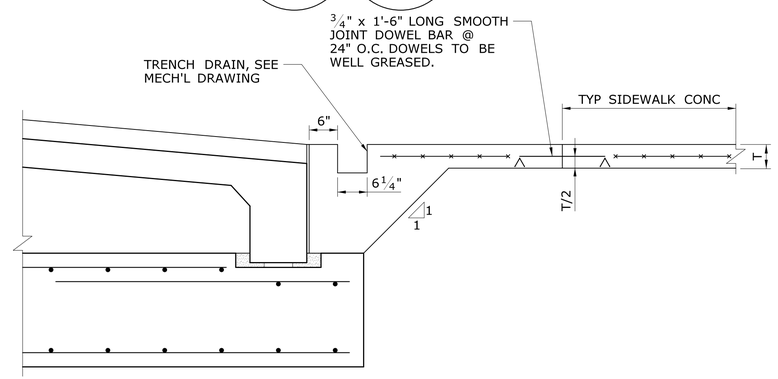
3 / - — PILASTER SECTION
SCALE: ¾" = 1'-0"



NOTE:

FOR NOTES, SEE DRAWING NO. FTS-200.

4 / FST-100 — 4 / FST-102 — SECTION
SCALE: ¾" = 1'-0"



TYPICAL PRECAST RAMP/SIDEWALK DETAIL
SCALE: ¾" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07_FST...202.dgn

SIGNATURE/BLOCK:

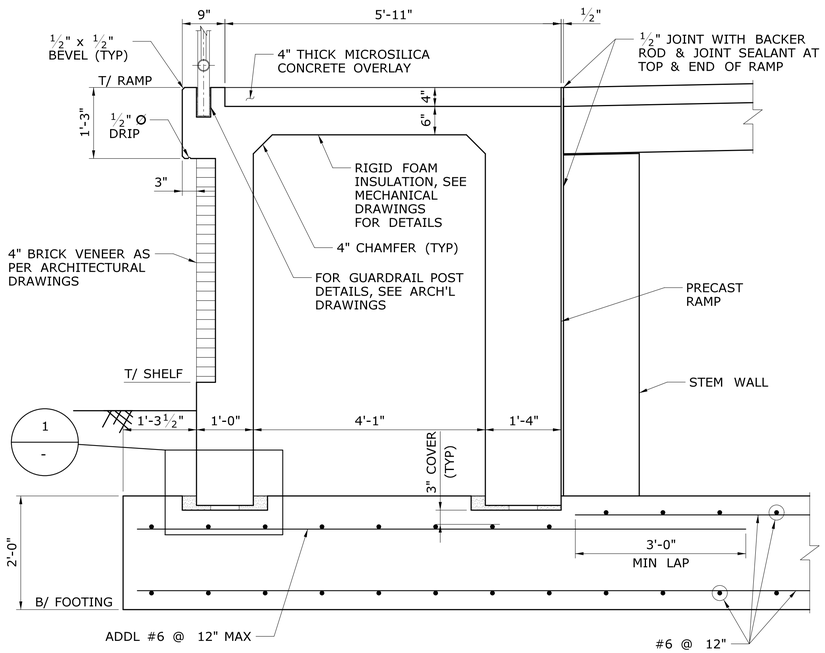
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE: NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

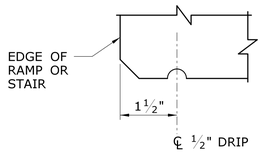
TOWN: WALLINGFORD

DRAWING TITLE: PLATFORM SECTIONS & DETAILS 3

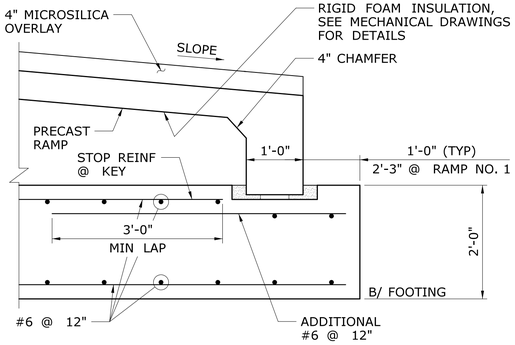
PROJECT NO. 170-3155
DRAWING NO. FST-202
SHEET NO. 04.12.023



1 / FST-103 **SECTION**
SCALE: ¾" = 1'-0"



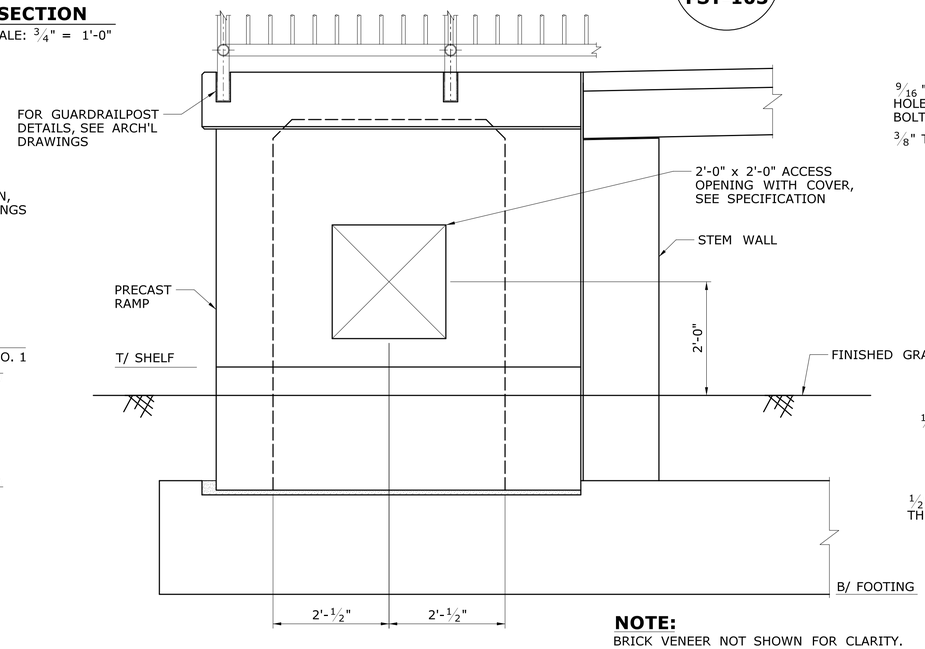
DRIP DETAIL
SCALE: 6" = 1'-0"



NOTES:

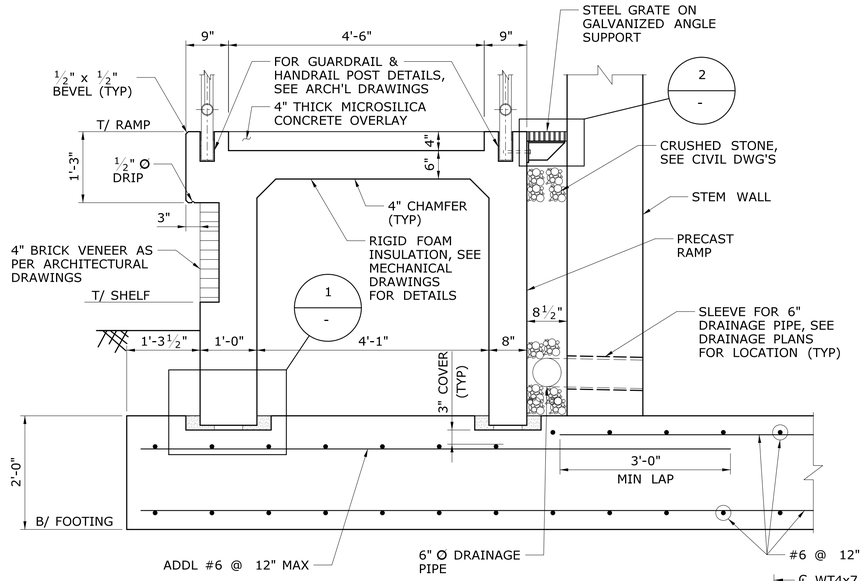
1. SEE ARCHITECTURAL DRAWINGS FOR RAMP SLOPES.
2. FOR END OF RAMP AND SIDEWALK INTERFACE, SEE DETAIL ON DRAWING NO. FST-202.

4 / FST-103 **SECTION**
SCALE: ¾" = 1'-0"



PRECAST RAMP - END ELEVATION
SCALE: ¾" = 1'-0"

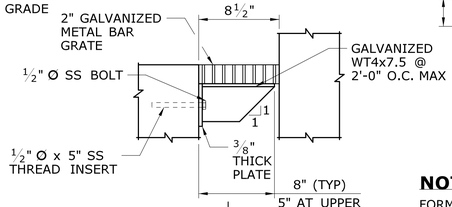
NOTE:
BRICK VENEER NOT SHOWN FOR CLARITY.



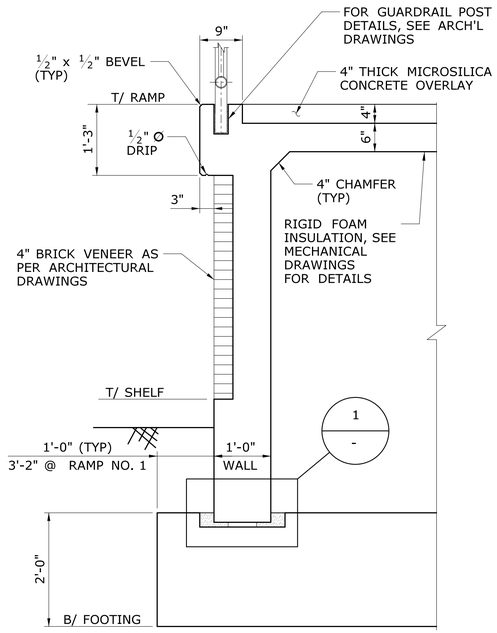
2 / FST-103 **SECTION**
SCALE: ¾" = 1'-0"

5 / - **VIEW**
SCALE: 3" = 1'-0"

5 / -

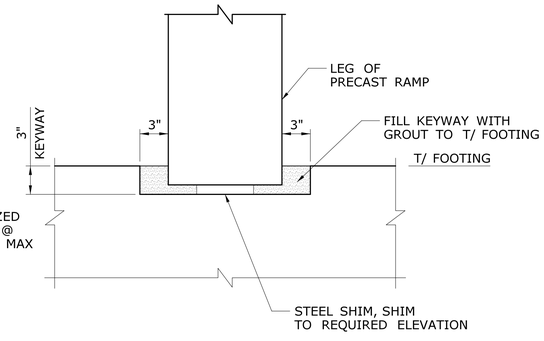


2 / - **DETAIL**
SCALE: 1½" = 1'-0"



NOTE:
FOOTING REINFORCEMENT NOT SHOWN FOR CLARITY.

3 / FST-103 **SECTION**
SCALE: ¾" = 1'-0"



NOTE:
FORM KEYWAY AROUND CONCRETE PILASTER AS REQUIRED.

1 / - **GROUT DETAIL**
SCALE: 1½" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **C DONOHUE**
CHECKED BY: **H BUI**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_203.dgn

SIGNATURE/ BLOCK:

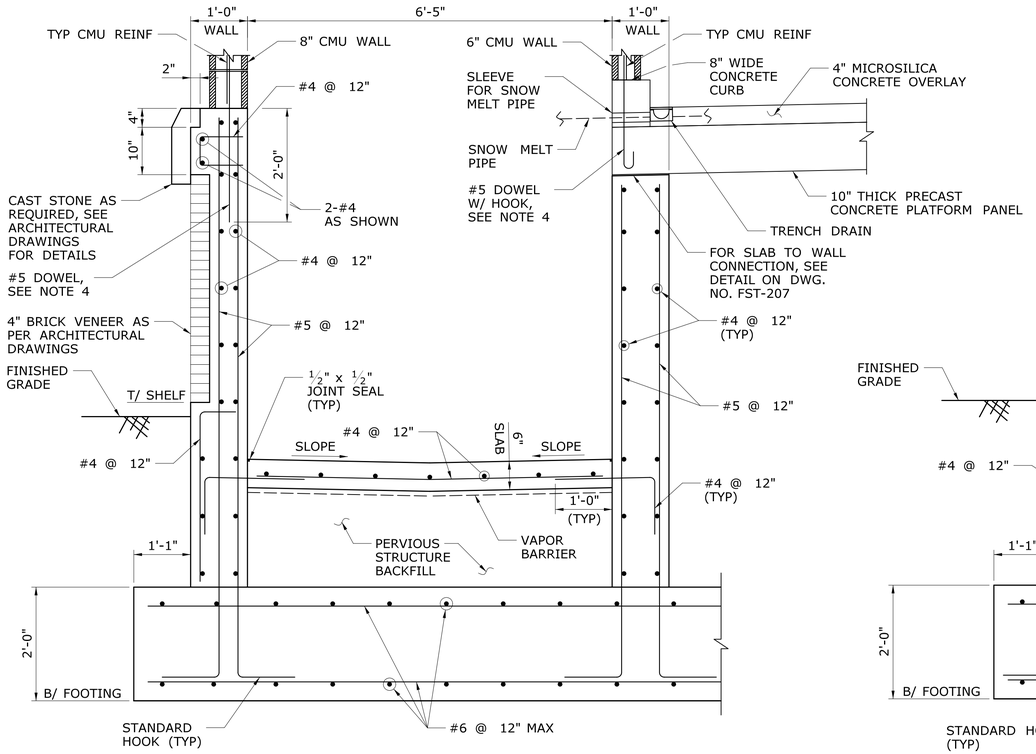
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

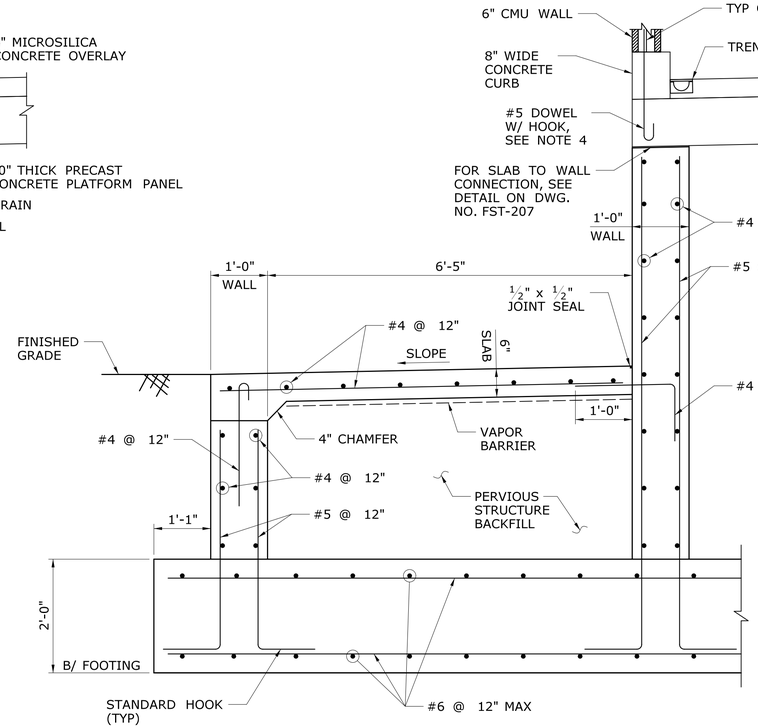
TOWN: **WALLINGFORD**

DRAWING TITLE:
PLATFORM SECTIONS & DETAILS 4

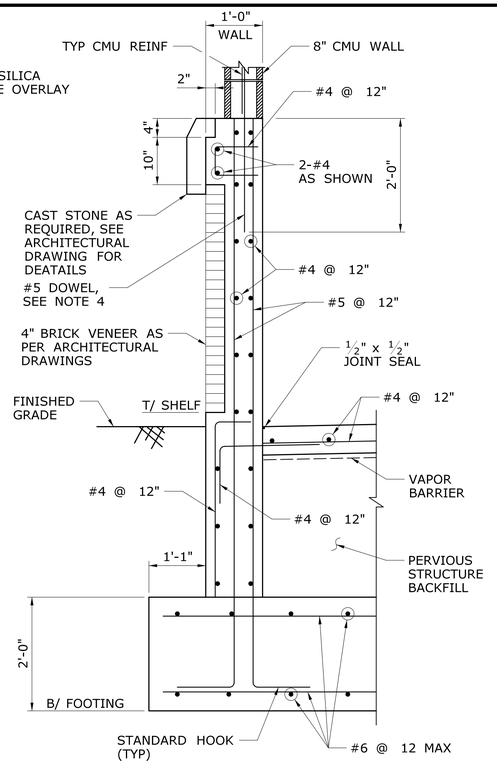
PROJECT NO. **170-3155**
DRAWING NO. **FST-203**
SHEET NO. **04.12.024**



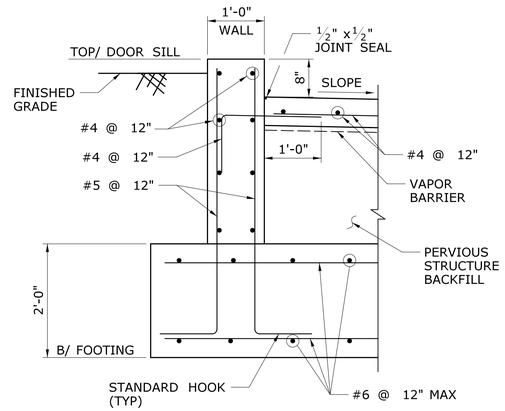
5 FST-105 **SECTION**
SCALE: ¾" = 1'-0"



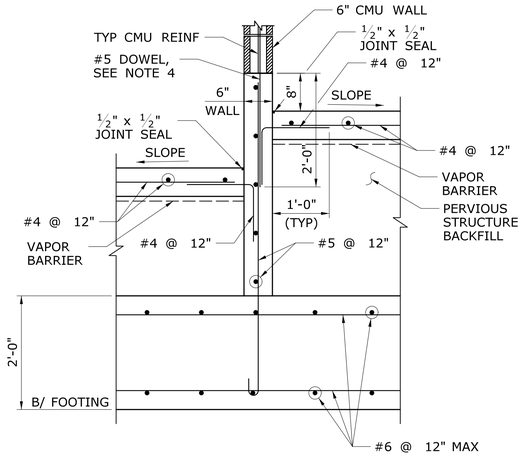
6 FST-105 **SECTION**
SCALE: ¾" = 1'-0"



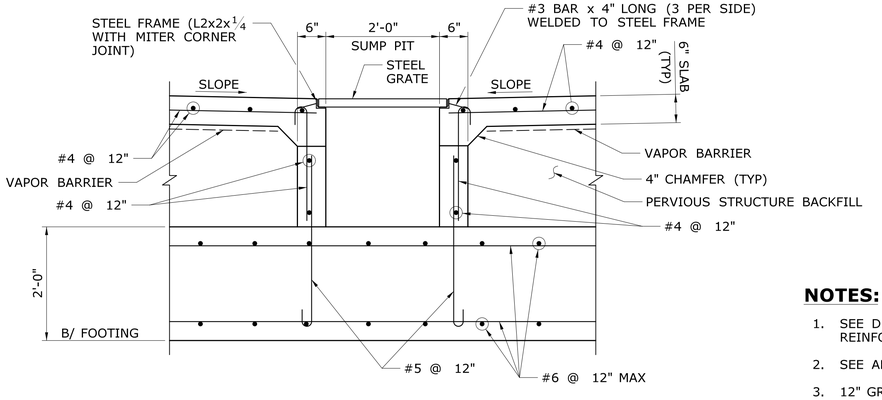
7 FST-105 **SECTION**
SCALE: ¾" = 1'-0"



8 FST-105 **SECTION**
SCALE: ¾" = 1'-0"



9 FST-105 **SECTION**
SCALE: ¾" = 1'-0"



10 FST-105 **SECTION**
SCALE: ¾" = 1'-0"

NOTES:

1. SEE DRAWING NO. FST-200 FOR TYPICAL FOOTING REINFORCEMENT.
2. SEE ARCHITECTURAL DRAWINGS FOR RAMP SLOPES.
3. 12" GRANULAR FILL NOT SHOWN FOR CLARITY.
4. DOWEL BAR SPACING TO MATCH CMU REINFORCEMENT SPACING. PROVIDE MINIMUM 48 BAR DIAMETER LAP LENGTH.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07_FST...204.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DIVISION OF ENGINEERING SERVICES JAN. 1978 LICENSED PROFESSIONAL ENGINEER

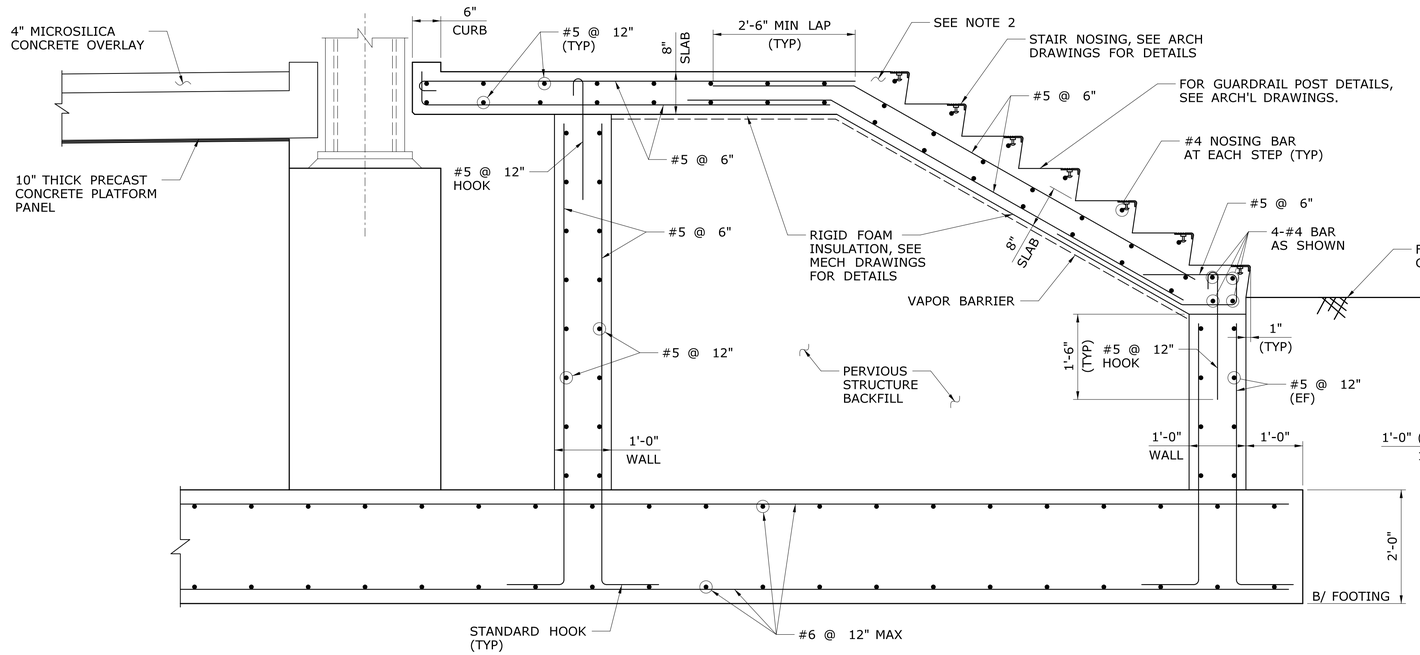
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

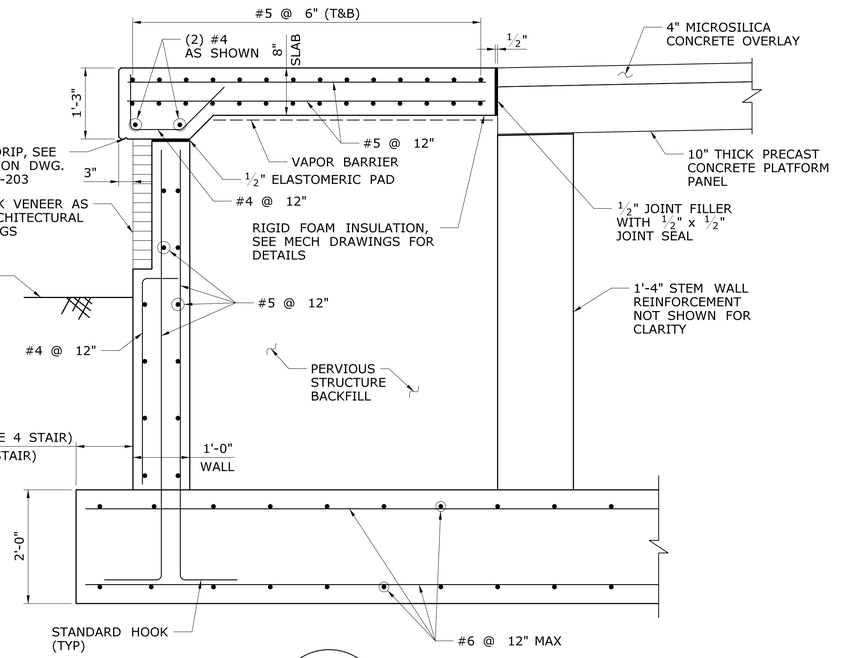
TOWN: **WALLINGFORD**

DRAWING TITLE: **PLATFORM SECTIONS & DETAILS 5**

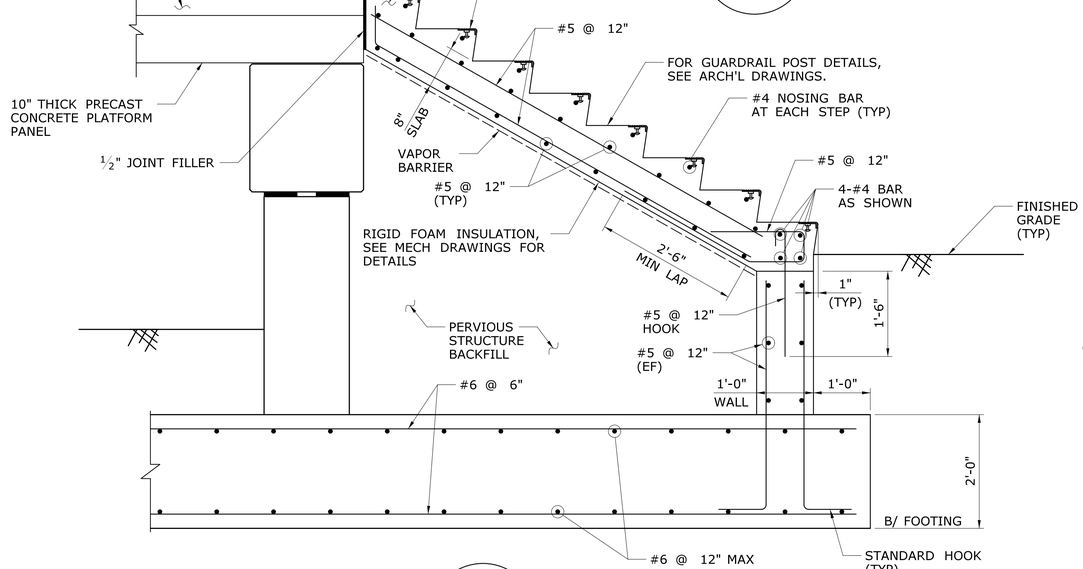
PROJECT NO. **170-3155**
DRAWING NO. **FST-204**
SHEET NO. **04.12.025**



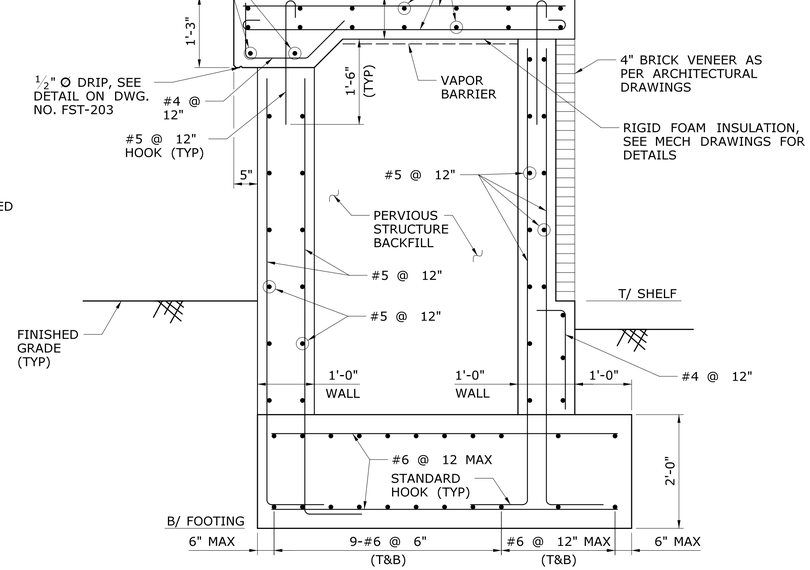
1 / **FST-106** **SECTION**
SCALE: 3/4" = 1'-0"



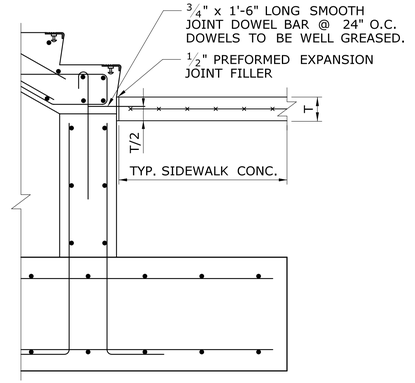
2 / **FST-106** **SECTION**
SCALE: 3/4" = 1'-0"



3 / **FST-106** **SECTION**
SCALE: 3/4" = 1'-0"



4 / **FST-106** **SECTION**
SCALE: 3/4" = 1'-0"



TYPICAL CIP STAIR/SIDEWALK DETAIL
SCALE: 3/4" = 1'-0"

NOTES:

1. 12" GRANULAR FILL NOT SHOWN FOR CLARITY.
2. SEE MECHANICAL DRAWINGS FOR SNOW MELT LAYOUT AT THE STAIR.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: ...\FA..CGR..CPS_0170-2296..148...07..FST...205.dgn

SIGNATURE/ BLOCK:
STATE OF CONNECTICUT · DAVID K. STAUFFER · No. 18778 · LICENSED PROFESSIONAL ENGINEER

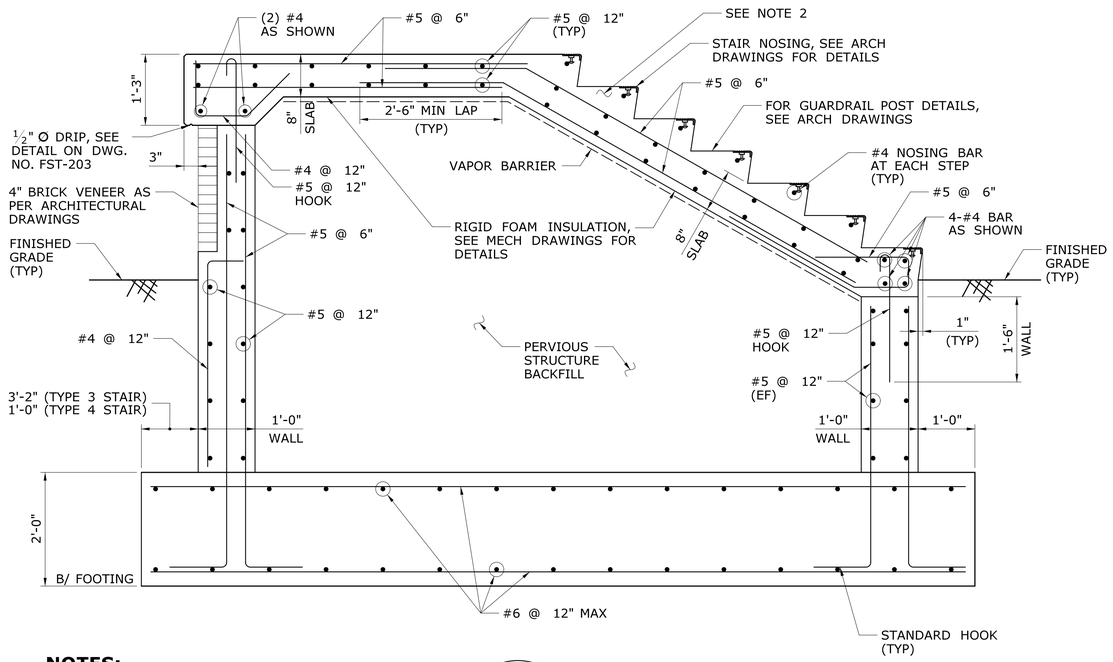
TrainSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE: **PLATFORM SECTIONS & DETAILS 6**

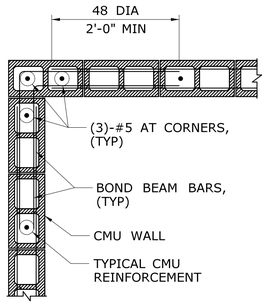
PROJECT NO. **170-3155**
DRAWING NO. **FST-205**
SHEET NO. **04.12.026**



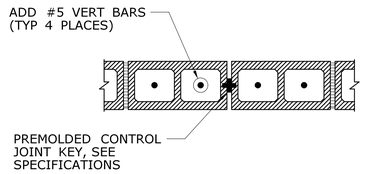
NOTES:

1. 12" GRANULAR FILL NOT SHOWN FOR CLARITY.
2. SEE MECHANICAL DRAWINGS FOR SNOW MELT LAYOUT AT THE STAIR.

5 / FST-106 — **SECTION**
SCALE: ¾" = 1'-0"

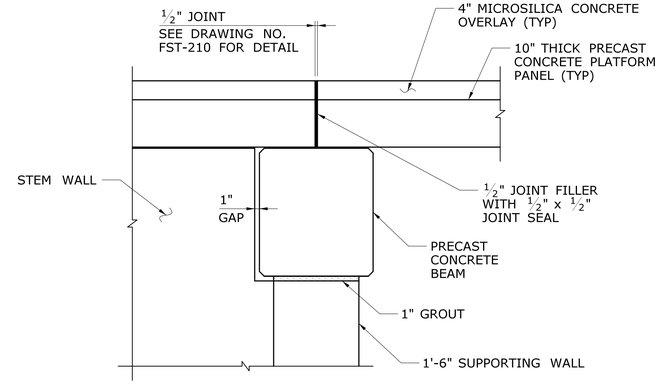


1 / - — **TYPICAL CMU CORNER REINFORCEMENT DETAIL**
SCALE: N.T.S.



NOTE:

BOND BEAM REINFORCEMENT SHALL BE CONTINOUS THROUGH CONTROL JOINTS.



NOTE:

REINFORCEMENT NOT SHOWN FOR CLARITY.

6 / FST-106 — **SECTION**
SCALE: ¾" = 1'-0"

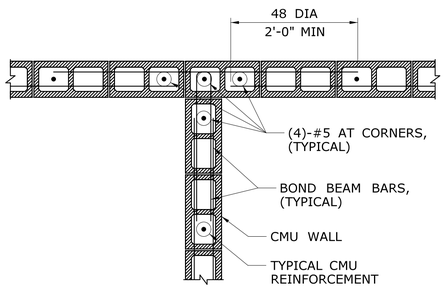
3 / - — **TYPICAL CONTROL JOINT IN CMU**
SCALE: N.T.S.

WALL THK / MO SIZE	6" WALL	8" WALL
UP TO 4'-0"	WT4x10.5	⌟L4x3½x5/16
4'-0" TO 6'-0"	WT7x11	⌟L5x3½x5/16
6'-0" TO 8'-0"	⌟L6x3½x5/16	⌟L6x3½x5/16

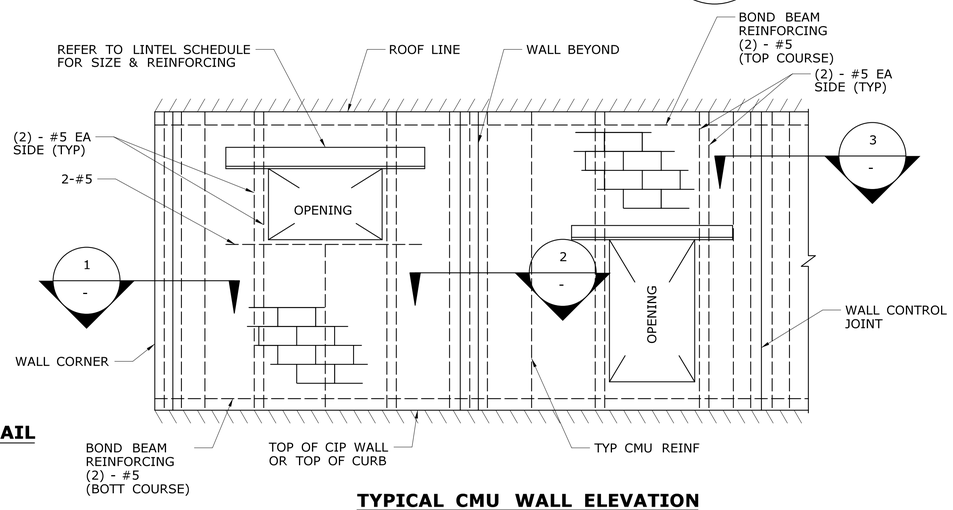
NOTES:

1. RE: ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENING SIZE AND LOCATION.
2. CONNECT 2 ANGLES TO ALL 2 ANGLE LINTELS BACK TO BACK AT 24' OC MAX.
3. ALL ANGLES LONG LEG VERTICAL.
4. BEARING END OF STEEL LINTEL AT CONTROL JOINT SHALL BE WRAPPED WITH BUILDING PAPER.
5. PROVIDE MINIMUM 6" BEARING ON BRICK OR SOLID CONCRETE BLOCK.
6. PROVIDE MINIMUM 8" x WALL THICKNESS x 8" HIGH GROUTED CMU OR BRICK BEARING PAD UNDER ALL LINTELS, UNLESS OTHERWISE NOTED. GROUT JAMBS OF MASONRY OPENINGS 6'-0" AND LARGER FULL HEIGHT FOR 8" MINIMUM WIDTH.
7. CONNECT LINTEL TO COLUMN IF MASONRY OPENING IS ADJACENT TO COLUMN AND LINTEL HAS LESS THAN 8" BEARING ON CMU BEYOND COLUMN FLANGES.
8. PROVIDE STEEL LOOSE LINTELS WHERE MASONRY CONTROL JOINTS GO THRU WALL OPENINGS.

MISCELLANEOUS LOOSE LINTEL SCHEDULE FOR MASONRY WALLS



2 / - — **TYPICAL CMU "T" REINFORCEMENT DETAIL**
SCALE: N.T.S.



TYPICAL CMU WALL ELEVATION
SCALE: N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...206.dgn

SIGNATURE/BLOCK:

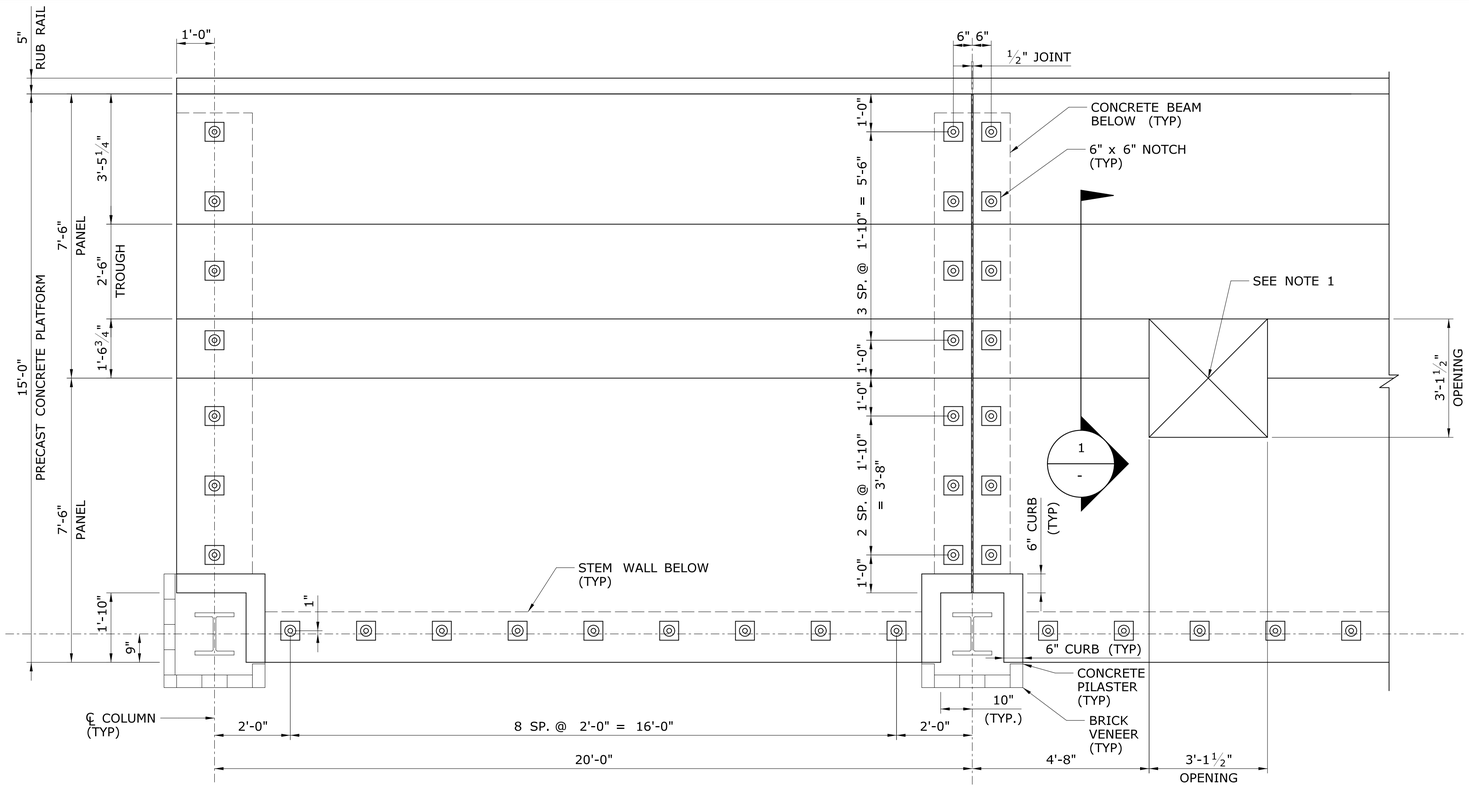
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

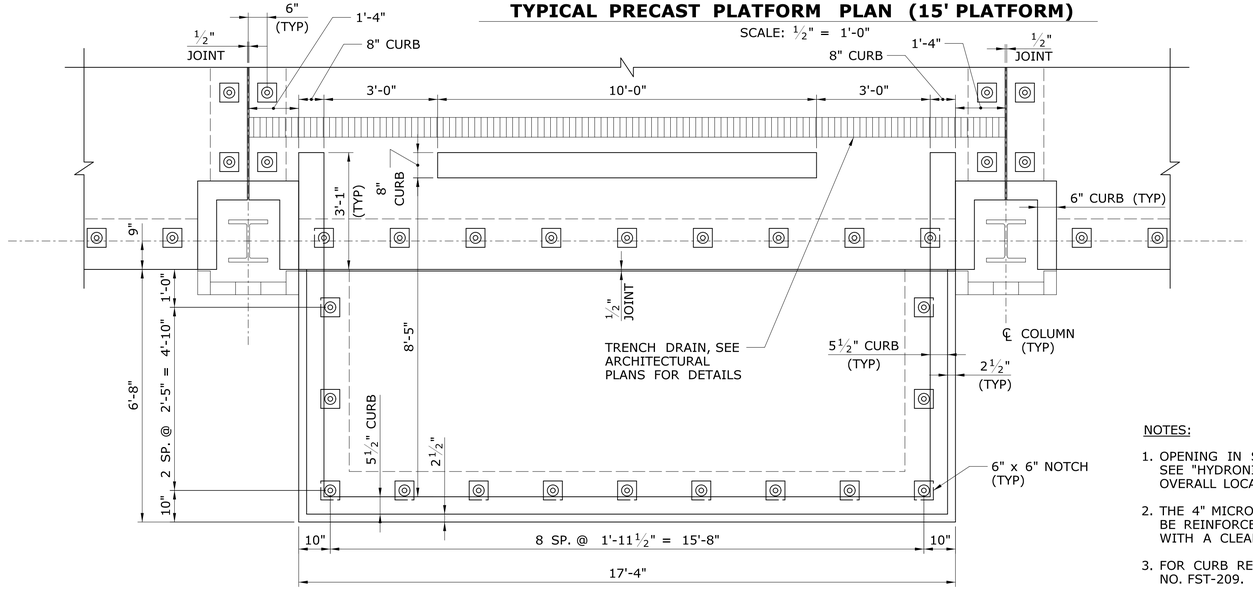
DRAWING TITLE: **PLATFORM SECTIONS & DETAILS 7**

PROJECT NO. **170-3155**
DRAWING NO. **FST-206**
SHEET NO. **04.12.027**



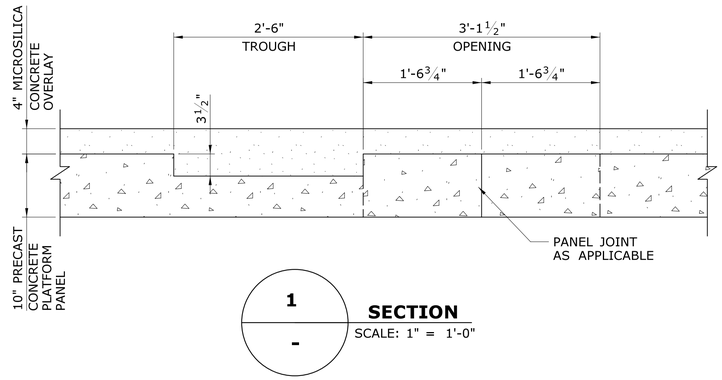
TYPICAL PRECAST PLATFORM PLAN (15' PLATFORM)

SCALE: ½" = 1'-0"



TYPICAL PRECAST PLATFORM PLAN (AT SHELTER)

SCALE: ½" = 1'-0"



1
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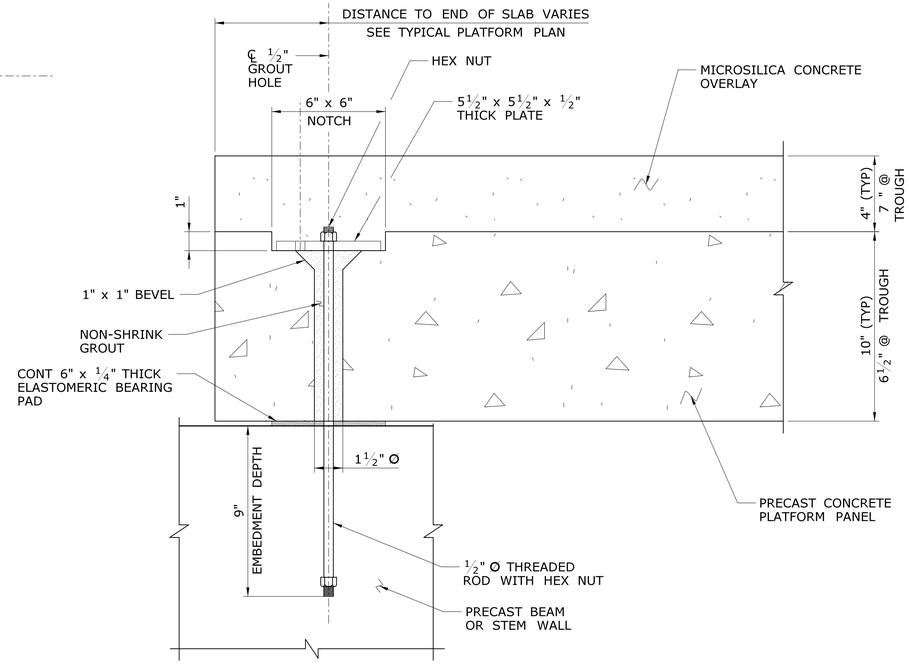
SECTION

SCALE: 1" = 1'-0"



TYPICAL SLAB CONNECTION DETAIL

SCALE: 3" = 1'-0"

NOTES:

1. OPENING IN SLAB FOR SNOW MELT MANIFOLD. SEE "HYDRONIC SNOW MELT PLANS" FOR OVERALL LOCATIONS OF OPENING AND TROUGH.
2. THE 4" MICROSILICA CONCRETE OVERLAY SHALL BE REINFORCED WITH 6 x 6 - W2.9 x W2.9 WWF WITH A CLEAR COVER OF 1½"
3. FOR CURB REINFORCING DETAIL, SEE DRAWING NO. FST-209.
4. SEE "PLUMBING PLAN" FOR TRENCH DRAIN SLEEVE LOCATIONS AND DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_207.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT — LIC. NO. 18778 — PROFESSIONAL ENGINEER

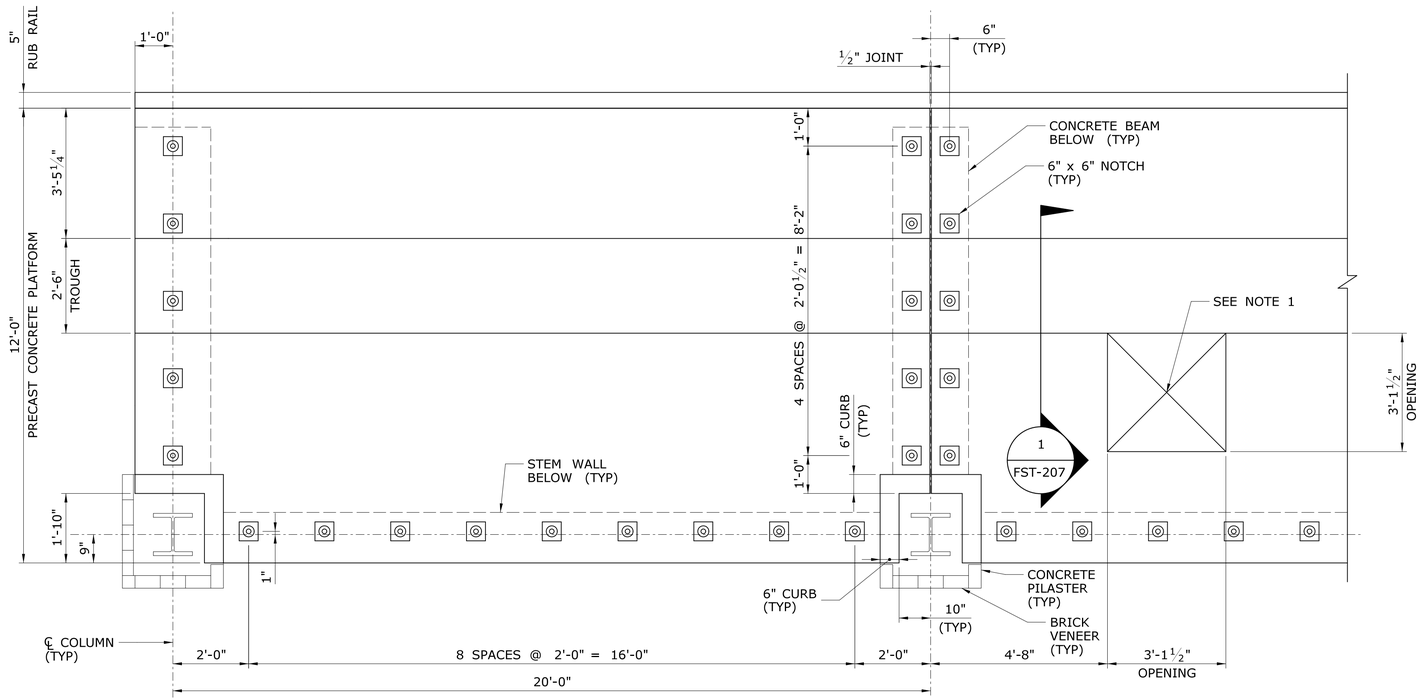
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

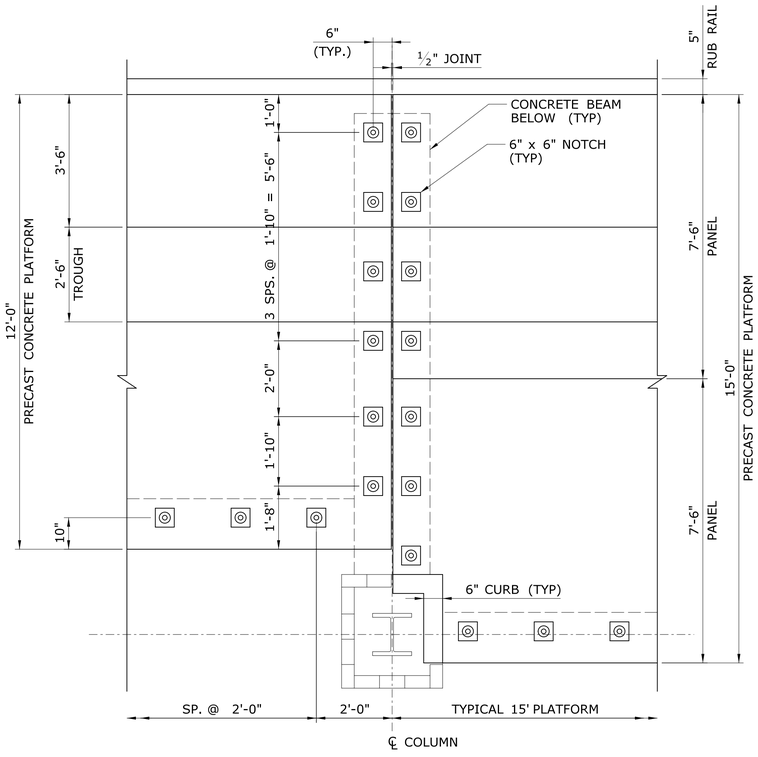
DRAWING TITLE:
PLATFORM SECTIONS & DETAILS 8

PROJECT NO. 170-3155
DRAWING NO. FST-207
SHEET NO. 04.12.028



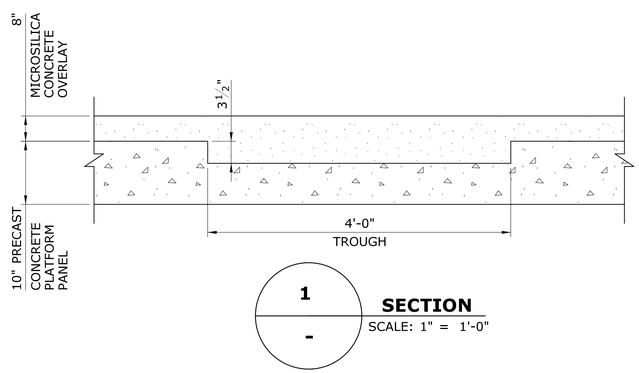
TYPICAL PRECAST PLATFORM PLAN (12' PLATFORM)

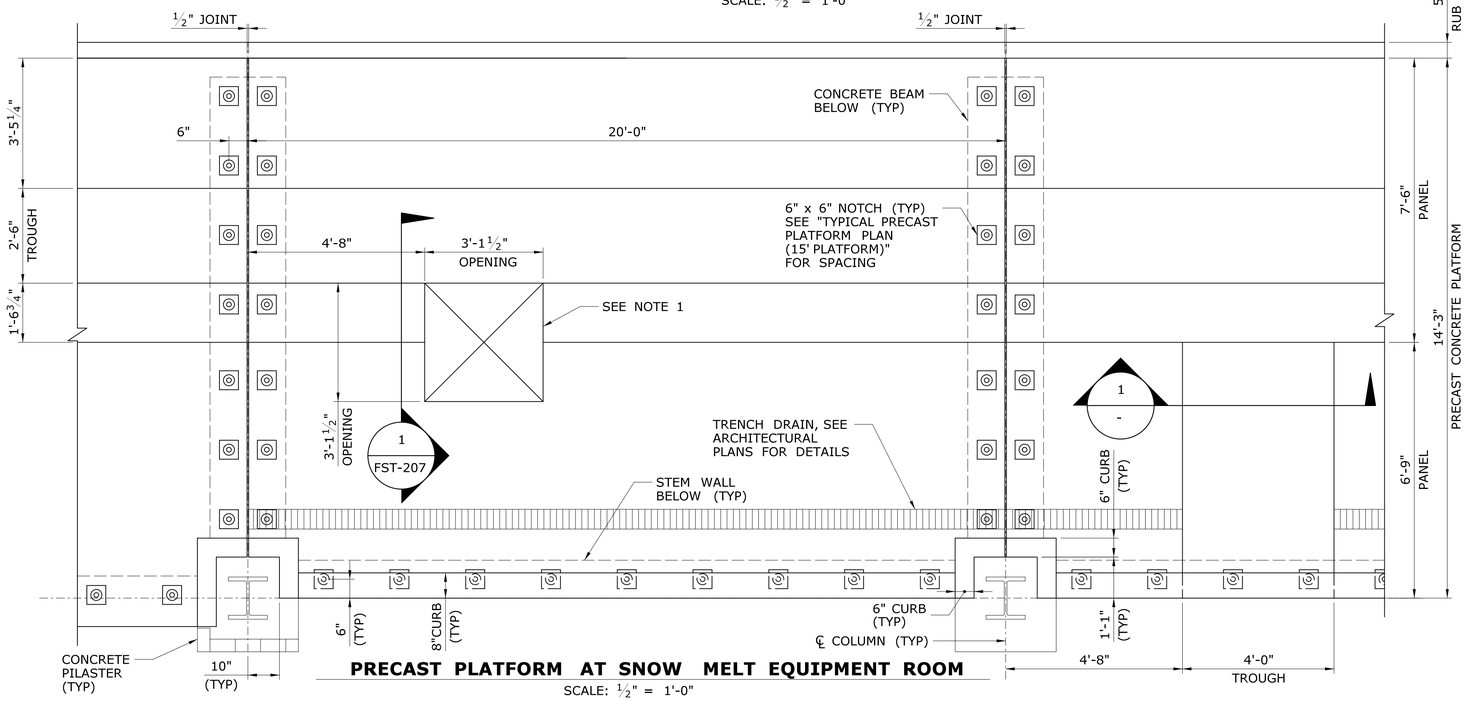
SCALE: ½" = 1'-0"



TYPICAL PRECAST PLATFORM PLAN (AT TRANSITION)

SCALE: ½" = 1'-0"





PRECAST PLATFORM AT SNOW MELT EQUIPMENT ROOM

SCALE: ½" = 1'-0"

NOTES:

1. OPENING IN SLAB FOR SNOW MELT MANIFOLD. SEE "HYDRONIC SNOW MELT PLAN" FOR OVERALL LOCATIONS OF OPENING AND TROUGH.
2. THE 4" MICROSILICA CONCRETE OVERLAY SHALL BE REINFORCED WITH 6 x 6 - W2.9 x W2.9 WWF WITH A CLEAR COVER OF 1½"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..-07..FST..208.dgn

SIGNATURE/ BLOCK:

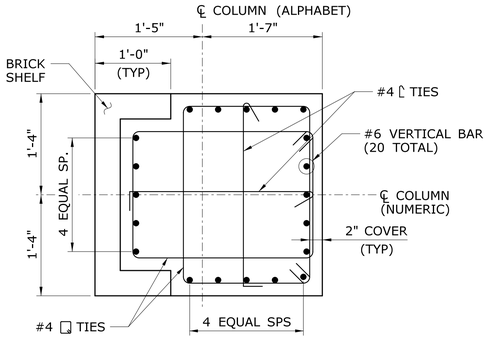
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

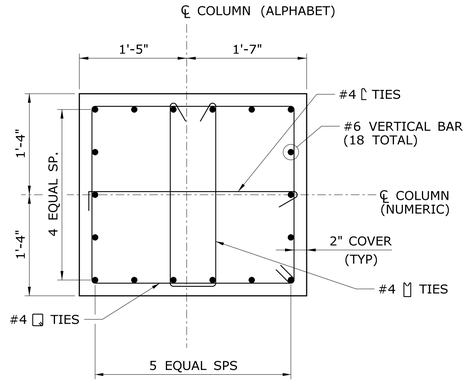
DRAWING TITLE: PLATFORM SECTIONS & DETAILS 9

PROJECT NO. 170-3155
DRAWING NO. FST-208
SHEET NO. 04.12.029



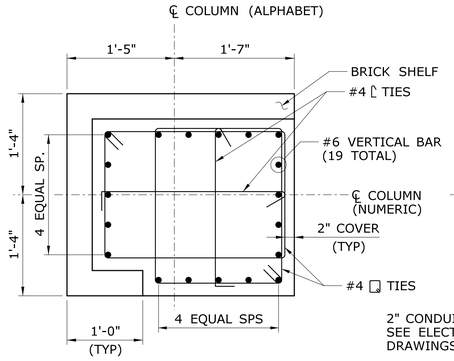
TYPE 1 PILASTER

SCALE: 1" = 1'-0"



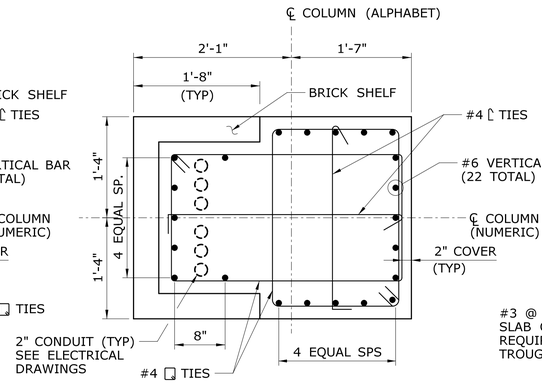
TYPE 2 PILASTER

SCALE: 1" = 1'-0"



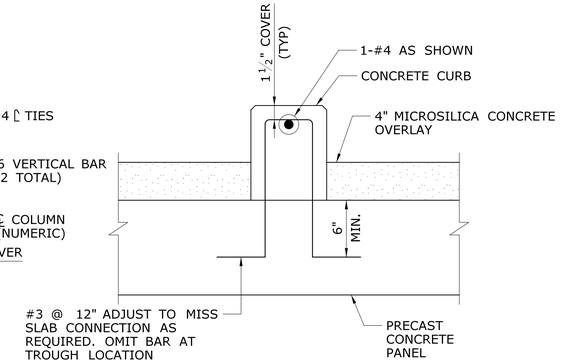
TYPE 3 PILASTER

SCALE: 1" = 1'-0"



TYPE 4 PILASTER

SCALE: 1" = 1'-0"



CURB REINFORCING DETAIL

SCALE: 1½" = 1'-0"

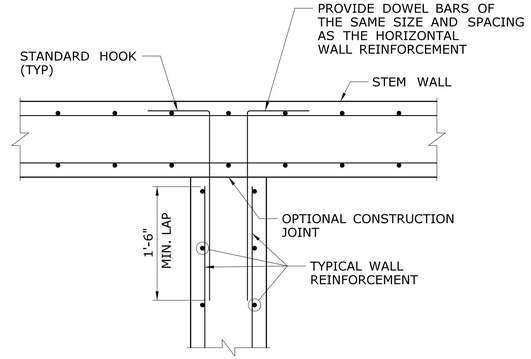
COLUMN	PILASTER TYPE
1E	TYPE 2
2E	TYPE 2
3E	TYPE 1
4E	TYPE 1
5E	TYPE 1
6E	TYPE 1
7E	TYPE 1
8E	TYPE 1
9E	TYPE 1
10E	TYPE 1
11E	TYPE 1

COLUMN	PILASTER TYPE
12E	TYPE 1
13E	TYPE 1
14E	TYPE 1
15E	TYPE 2
16E	TYPE 1
17E	TYPE 4
18E	TYPE 1
19E	TYPE 1
20E	TYPE 1
21E	TYPE 1
22E	TYPE 1

COLUMN	PILASTER TYPE
23E	TYPE 1
24E	TYPE 4
25E	TYPE 2
26E	TYPE 2
22W	TYPE 2
23W	TYPE 1
24W	TYPE 4
25W	TYPE 2
26W	TYPE 2
27W	TYPE 2
28W	TYPE 4

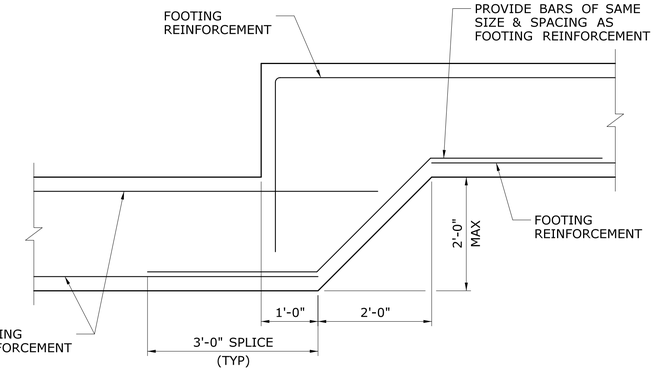
COLUMN	PILASTER TYPE
29W	TYPE 1
30W	TYPE 1
31W	TYPE 1
32W	TYPE 1
33W	TYPE 2
34W	TYPE 1
35W	TYPE 1
36W	TYPE 1
37W	TYPE 1
38W	TYPE 1
39W	TYPE 1

COLUMN	PILASTER TYPE
40W	TYPE 1
41W	TYPE 1
42W	TYPE 1
43W	TYPE 1
44W	TYPE 1
45W	TYPE 1
46W	TYPE 1
47W	TYPE 3



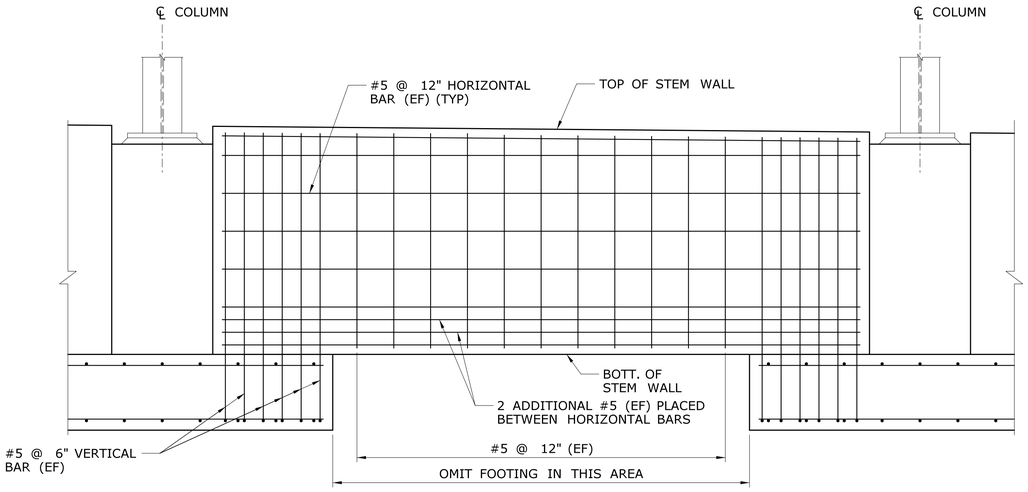
TYPICAL WALL INTERFACE REINFORCING

SCALE: ¾" = 1'-0"



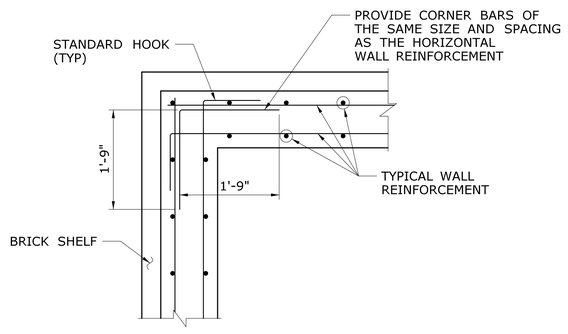
STEPPED FOOTING DETAIL

SCALE: ¾" = 1'-0"



UTILITY SPAN-OVER DETAIL

SCALE: ½" = 1'-0"



TYPICAL WALL CORNER REINFORCING

SCALE: ¾" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..07..FST...209.dgn

SIGNATURE/ BLOCK:

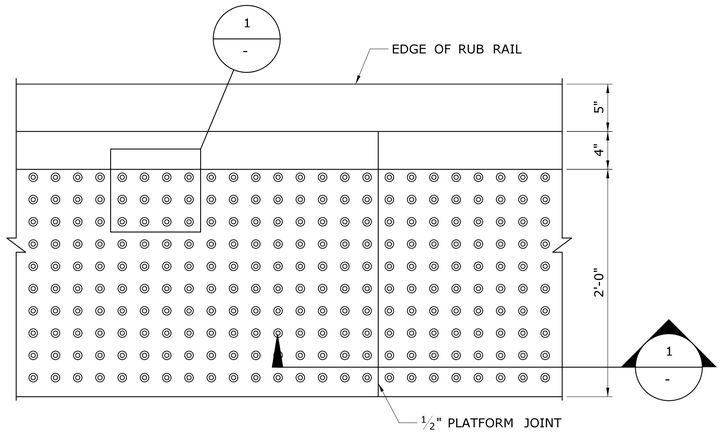
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

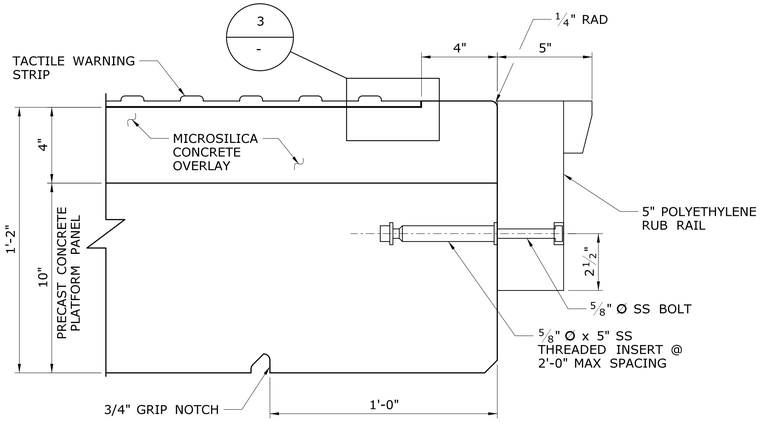
DRAWING TITLE:
PLATFORM SECTIONS & DETAILS 10

PROJECT NO. 170-3155
DRAWING NO. FST-209
SHEET NO. 04.12.030



TACTILE WARNING STRIP PLAN

SCALE: 1 1/2" = 1'-0"



2 / FST-200 — 2 / FST-202 **DETAIL**

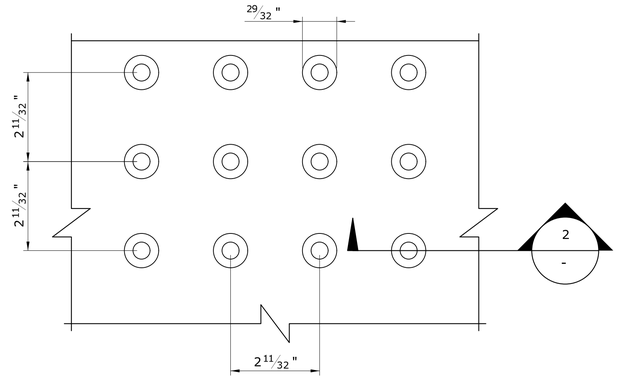
SCALE: 3" = 1'-0"

ELEVATION TABLE (FT)				
COLUMN	PT. 1	PT. 2	PT. 3	TSE
1E	75.69	73.97	74.12	N/A
2E	75.70	73.98	74.06	N/A
3E	75.71	73.99	74.07	75.52
4E	75.72	74.00	74.08	75.27
5E	75.72	74.00	74.08	75.02
6E	75.73	74.01	74.09	74.76
7E	75.74	74.02	74.10	74.51
8E	75.75	74.03	74.11	74.26
9E	75.76	74.04	74.12	74.24
10E	75.76	74.04	74.12	74.24
11E	75.70	73.99	74.10	74.25
12E	75.71	74.00	74.11	74.26
13E	75.72	74.01	74.12	74.27
14E	75.73	74.02	74.13	74.28
15E	75.73	74.02	74.13	N/A
16E	75.74	74.03	74.14	74.29
17E	75.75	74.04	74.15	73.97
18E	75.76	74.05	74.16	73.59
19E	75.77	74.06	74.17	73.21
20E	75.77	74.06	74.17	72.83
21E	75.78	74.07	74.18	72.83
22E	75.79	74.08	74.19	72.84
23E	75.80	74.09	74.20	72.85
24E	75.81	74.10	74.21	72.86
25E	75.81	74.10	74.21	N/A
26E	75.82	74.11	74.22	N/A

ELEVATION TABLE (FT)				
COLUMN	PT. 1	PT. 2	PT. 3	TSE
22W	75.66	73.95	74.06	73.85
23W	75.67	73.96	74.07	73.85
24W	75.67	73.96	74.07	73.85
25W	75.67	73.96	74.07	N/A
26W	75.68	73.97	74.08	N/A
27W	75.69	73.98	74.09	N/A
28W	75.69	73.98	74.09	N/A
29W	75.70	73.99	74.10	74.51
30W	75.70	73.99	74.10	74.51
31W	75.71	74.00	74.11	74.51
32W	75.71	74.00	74.11	74.51
33W	75.72	74.01	74.12	N/A
34W	75.72	74.01	74.12	74.51
35W	75.73	74.02	74.13	74.51
36W	75.73	74.02	74.13	74.51
37W	75.74	74.03	74.14	74.51
38W	75.74	74.03	74.14	74.51
39W	75.75	74.04	74.15	74.51
40W	75.75	74.04	74.15	74.51
41W	75.76	74.05	74.16	74.51
42W	75.76	74.05	74.16	74.51
43W	75.77	74.06	74.17	74.51
44W	75.77	74.06	74.17	74.51
45W	75.78	74.07	74.18	N/A
46W	75.78	74.07	74.18	N/A
47W	75.79	74.08	74.19	N/A

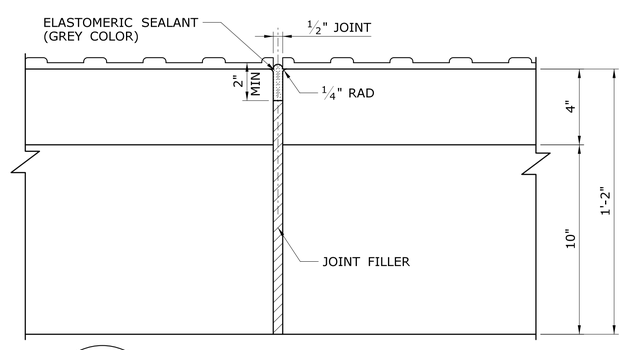
NOTE:

FOR LOCATIONS OF PT. 1, PT. 2 & PT. 3, SEE DRAWINGS NO'S. FST-200 & FST-202.



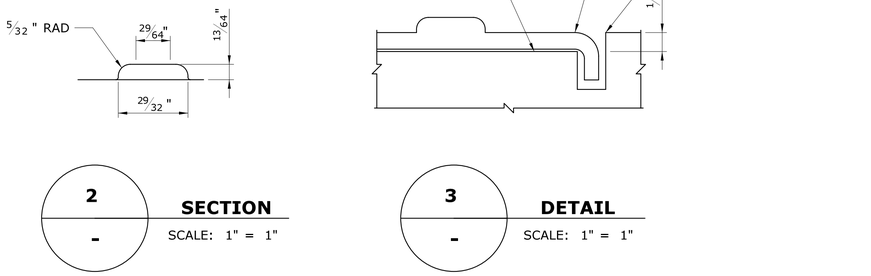
1 / - **DETAIL**

SCALE: 6" = 1'-0"



1 / - **SECTION - TYPICAL PLATFORM JOINT**

SCALE: 3" = 1"

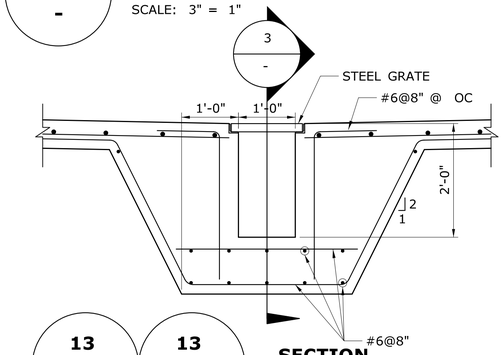


2 / - **SECTION**

SCALE: 1" = 1"

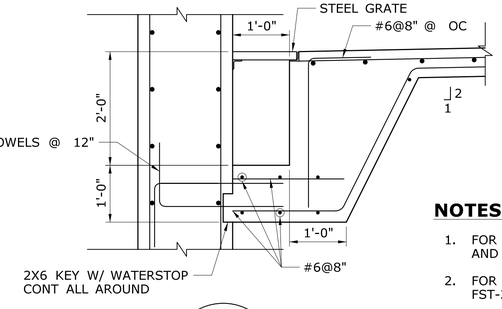
3 / - **DETAIL**

SCALE: 1" = 1"



13 / FST-107 — 13 / FST-108 **SECTION**

SCALE: 3/4" = 1"



3 / - **SECTION**

SCALE: 3/4" = 1"

NOTES:

1. FOR STRUCTURAL NOTES, SEE DRAWING NOS. FST-001, FST-002 AND FST-003.
2. FOR TYPICAL PLATFORM PLANS, SEE DRAWING NOS. FST-207 & FST-208.
3. FOR LOCATIONS OF PT. 1, PT. 2 AND PT. 3, SEE DRAWING NOS. FST-200 AND FST-202.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FALL PROTECTION WHICH SHALL INCLUDE ROOF MOUNTING DETAILS AS PER MANUFACTURER.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...210.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT — DAVID K. STAPLES — No. 12778 — LICENSED PROFESSIONAL ENGINEER

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

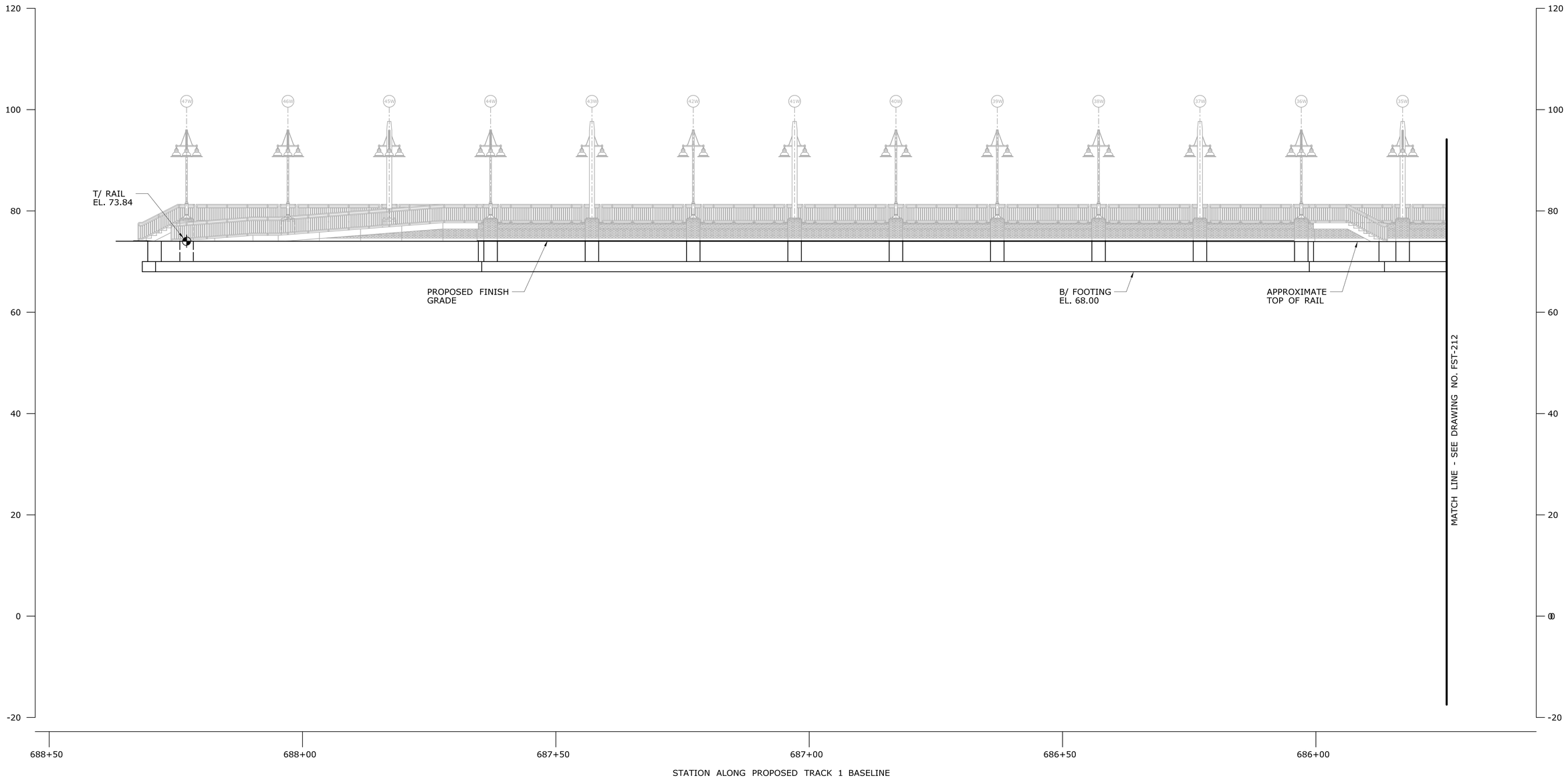
TOWN: WALLINGFORD

DRAWING TITLE: PLATFORM SECTIONS & DETAILS 11

PROJECT NO. 170-3155

DRAWING NO. FST-210

SHEET NO. 04.12.031



WEST PLATFORM PROFILE - NORTH HALF LOOKING EAST

SCALE: 1" = 10'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_211.dgn

SIGNATURE/ BLOCK:

TrainSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

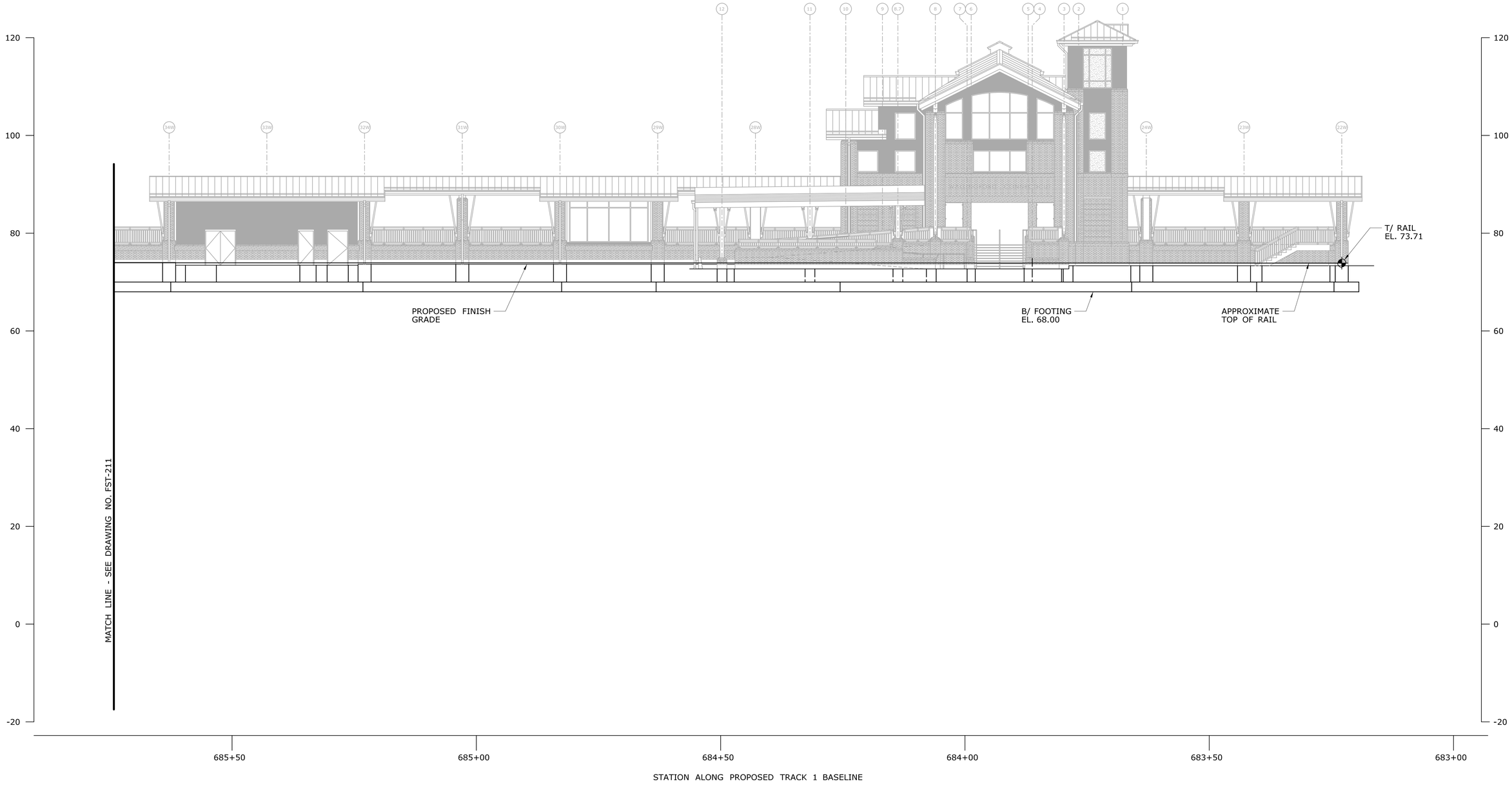
TOWN: WALLINGFORD

DRAWING TITLE:
WEST PLATFORM
PROFILE - NORTH HALF

PROJECT NO. 170-3155

DRAWING NO. FST-211

SHEET NO. 04.12.032



WEST PLATFORM PROFILE - SOUTH HALF LOOKING EAST

SCALE: 1" = 10'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_212.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION LICENSED PROFESSIONAL ENGINEER JAN. 1978

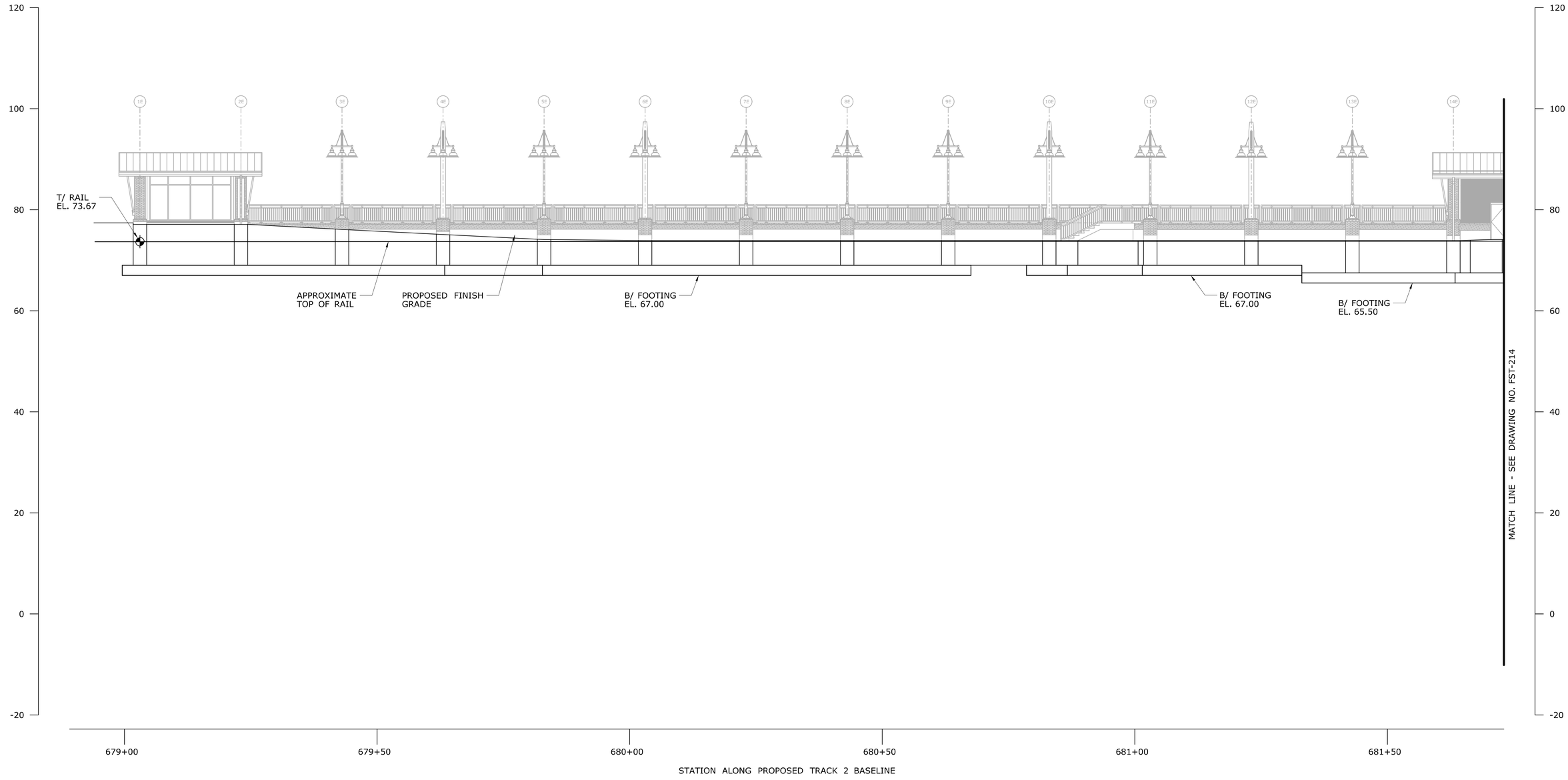
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: WEST PLATFORM PROFILE - SOUTH HALF

PROJECT NO. 170-3155
DRAWING NO. FST-212
SHEET NO. 04.12.033



EAST PLATFORM PROFILE - SOUTH HALF LOOKING WEST

SCALE: 1" = 10'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...213.dgn

SIGNATURE/ BLOCK:

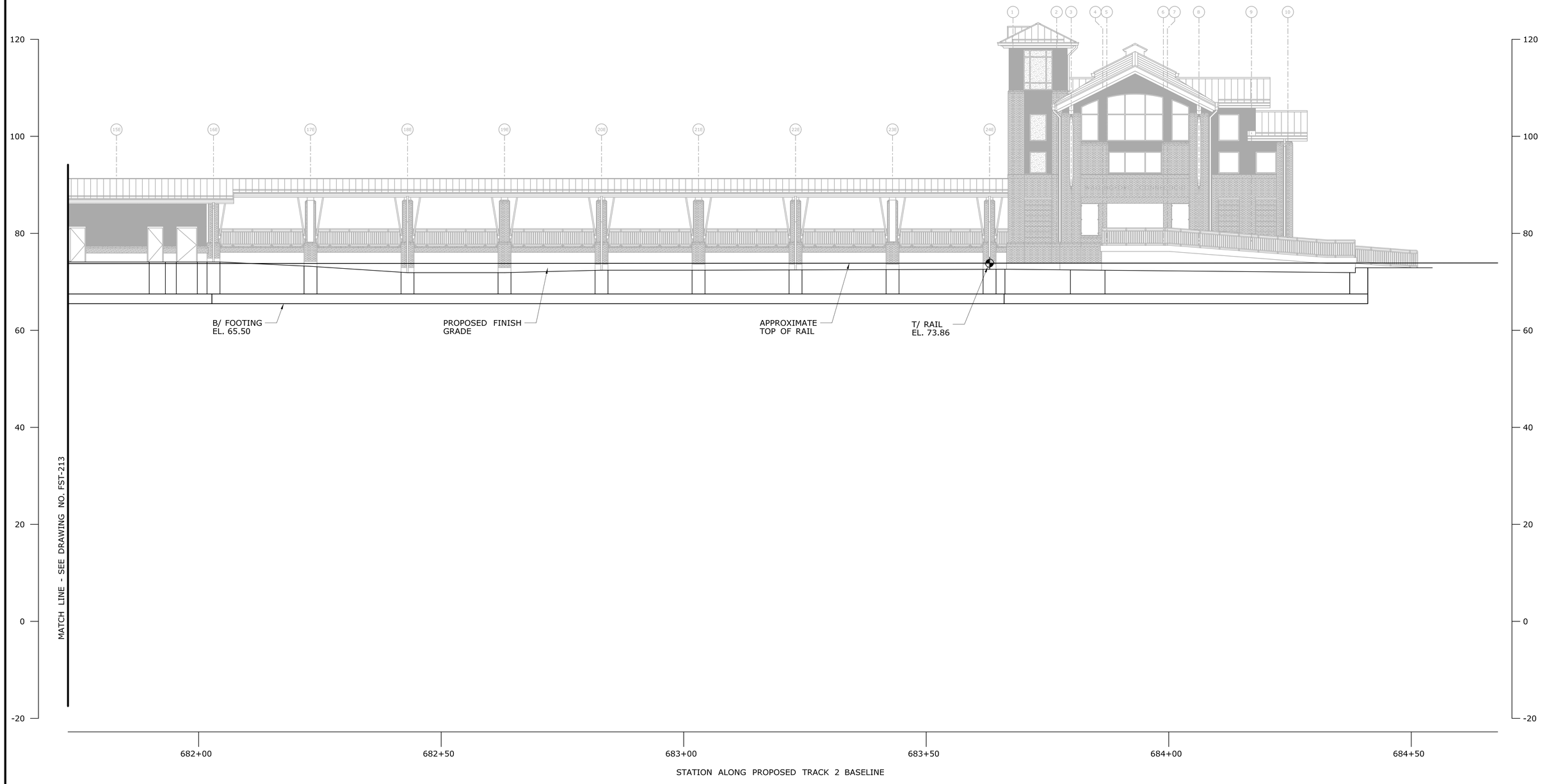
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE: NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: EAST PLATFORM PROFILE - SOUTH HALF

PROJECT NO. 170-3155
DRAWING NO. FST-213
SHEET NO. 04.12.034



EAST PLATFORM PROFILE - NORTH HALF LOOKING WEST

SCALE: 1" = 10'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_214.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DIVISION OF ARCHITECTURAL & ENGINEERING SERVICES JAN. 1978 LICENSED PROFESSIONAL ENGINEER

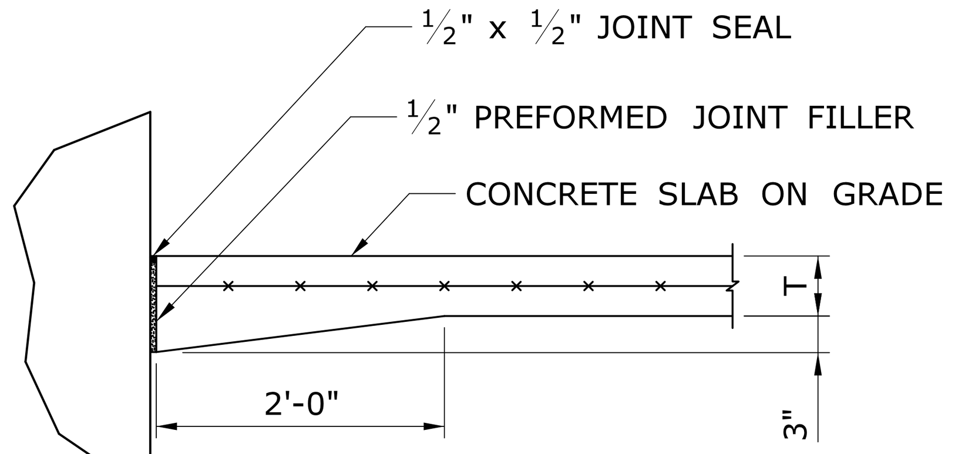
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

TOWN: WALLINGFORD

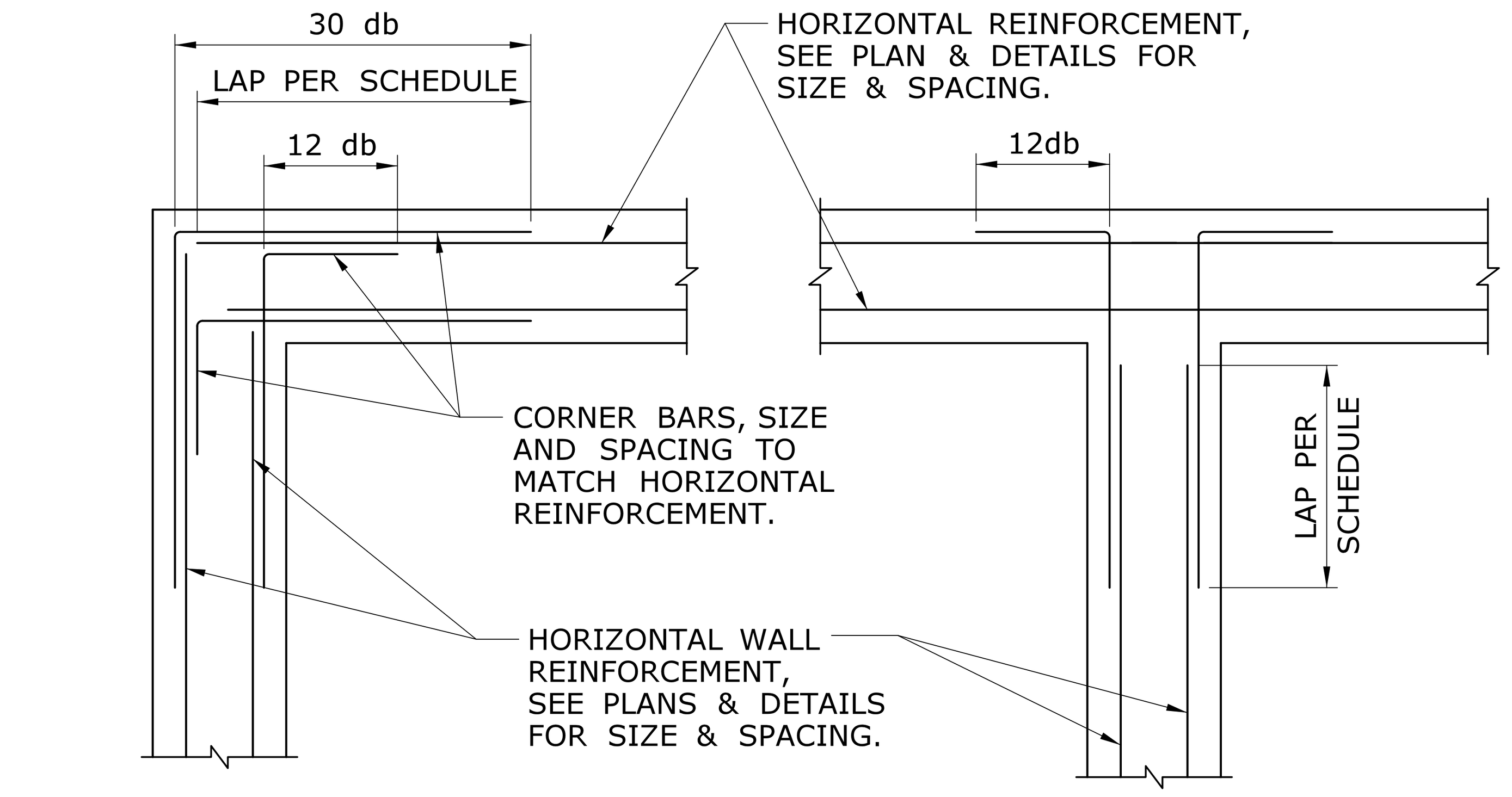
DRAWING TITLE:
EAST PLATFORM
PROFILE - NORTH HALF

PROJECT NO. 170-3155
DRAWING NO. FST-214
SHEET NO. 04.12.035



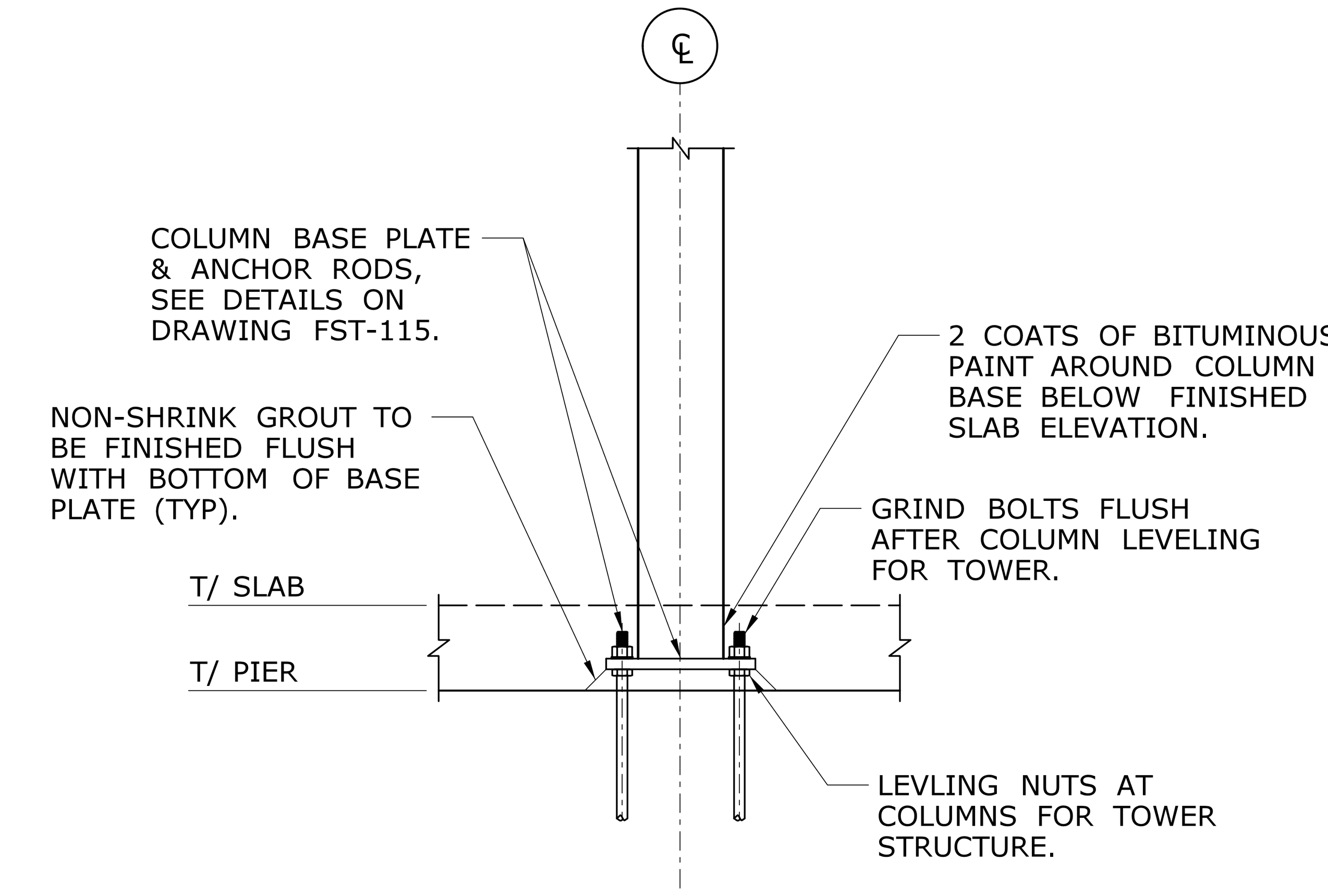
TYPICAL SLAB ON GRADE PERIMETER DETAIL

SCALE: 3/4" = 1'-0"



TYPICAL WALL INTERSECTION DETAILS

SCALE: 3/4" = 1'-0"



TYPICAL COLUMN BASE DETAIL

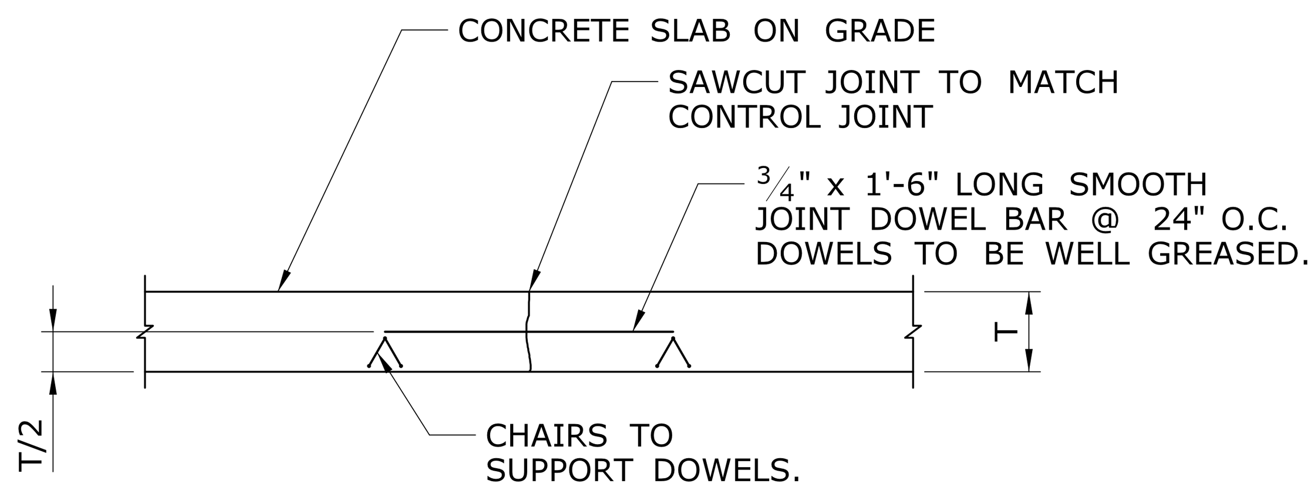
SCALE: 3/4" = 1'-0"

REINFORCING STEEL DEVELOPMENT LENGTH SCHEDULE 4000PSI

BAR SIZE	TOP BARS	OTHER BARS
#3	50 x BAR DIA = 1'-7"	38 x BAR DIA = 1'-3"
#4	50 x BAR DIA = 2'-1"	38 x BAR DIA = 1'-7"
#5	50 x BAR DIA = 2'-8"	38 x BAR DIA = 2'-0"
#6	50 x BAR DIA = 3'-2"	38 x BAR DIA = 2'-5"
#7	63 x BAR DIA = 4'-8"	48 x BAR DIA = 3'-6"
#8	63 x BAR DIA = 5'-3"	48 x BAR DIA = 4'-0"
#9	63 x BAR DIA = 5'-11"	48 x BAR DIA = 4'-6"
#10	63 x BAR DIA = 6'-7"	48 x BAR DIA = 5'-0"

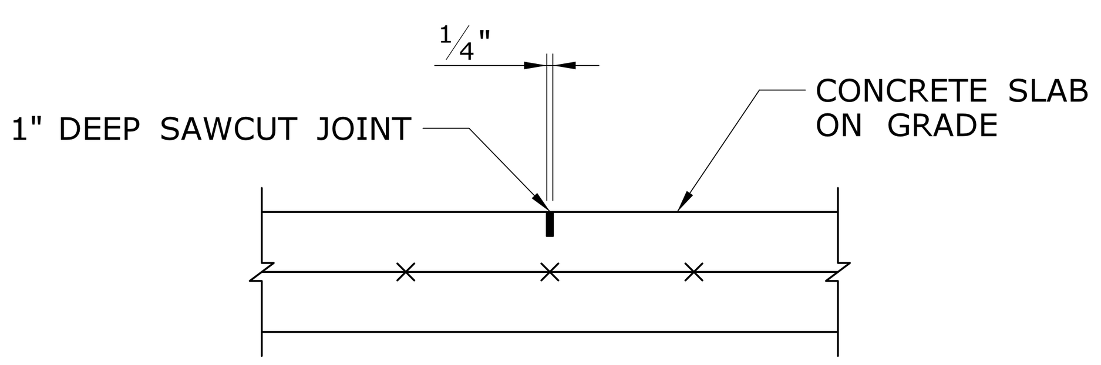
NOTES:

1. TOP BARS INCLUDE FOOTING REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REBAR AND ALL HORIZONTAL WALL REINFORCEMENT WITHOUT EXCEPTION. REFER TO ACI 318-02 FOR MORE INFORMATION. OTHER BARS INCLUDE FOOTING REINFORCEMENT WITH LESS THAN 12" OF CONCRETE CAST BELOW THE REBAR.
2. CONCRETE IS NORMAL WEIGHT AND REINFORMENT IS FY=60 KSI.
3. PROVIDE APPROPRIATE FACTORS FOR LIGHTWEIGHT CONCRETE AND EPOXY COATED REINFORCEMENT PER ACI.
4. MULTIPLY TABLE VALUES BY 1.3 FOR LAP SPLICE LENGTHS.
5. MINIMUM CLEAR SPACING OF BARS SHALL NOT BE LESS THAN 3 BAR DIAMETERS. CLEAR COVER SHALL NOT BE LESS THE MOST RESTRICTIVE REQUIREMENTS OF 1 BAR DIAMETER, THE MINIMUM CLEAR COVER DIMENSION LISTED IN THE CONTRACT DOCUMENTS AND THE ACI CODE. REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD.



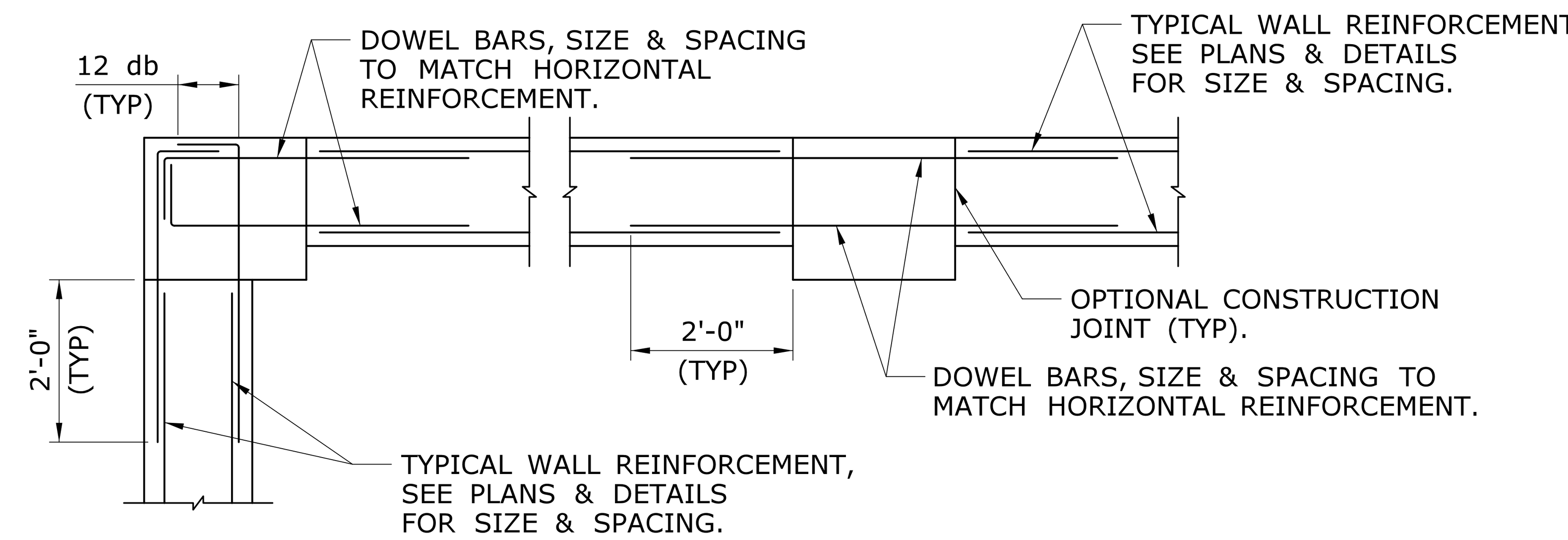
TYPICAL SLAB CONSTRUCTION JOINT

SCALE: 1" = 1'-0"



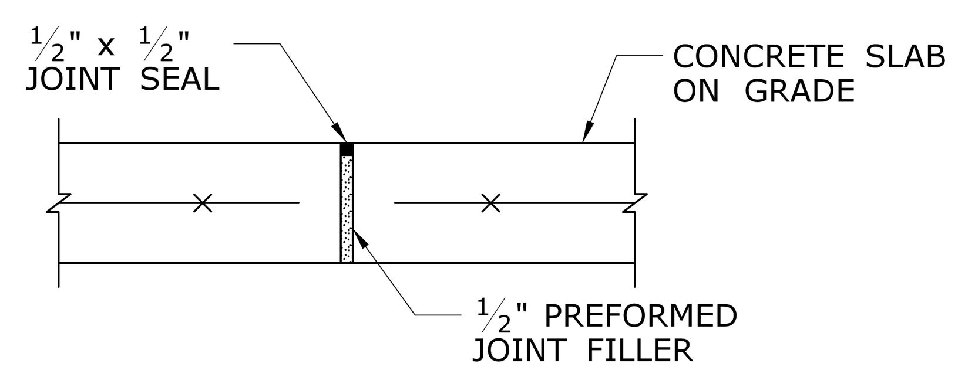
TYPICAL SLAB/MICROSILICA CONTROL JOINT DETAIL

SCALE: 3/4" = 1'-0"



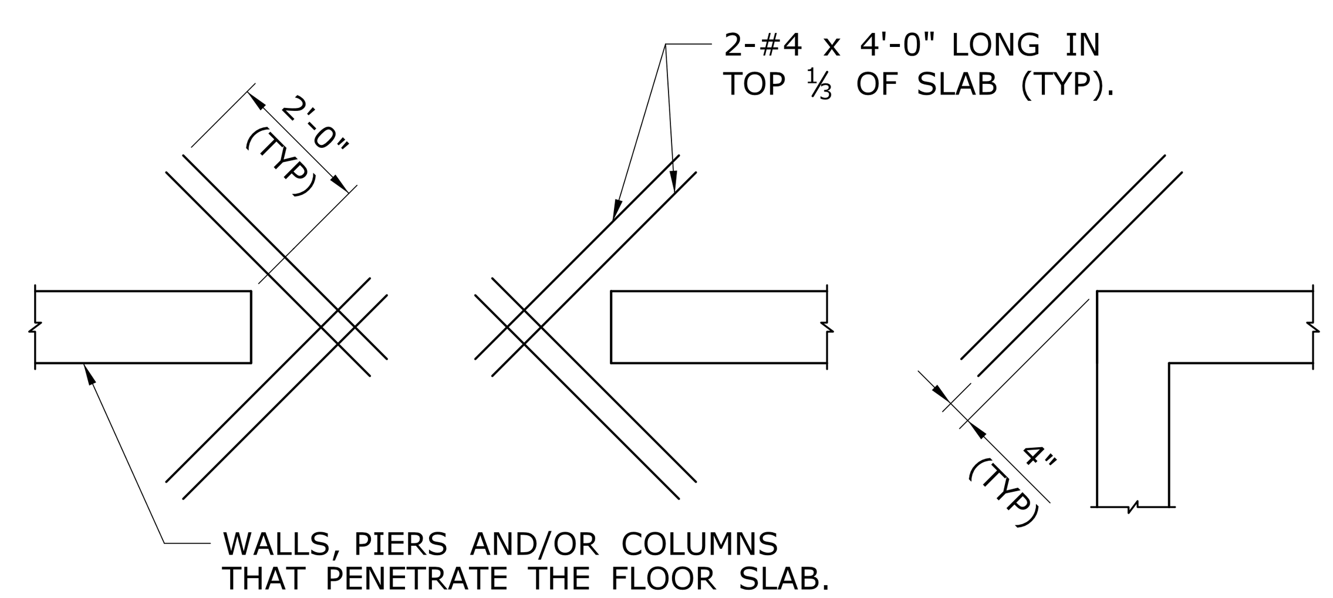
TYPICAL WALL & PIER INTERSECTION DETAILS

SCALE: 1/2" = 1'-0"



TYPICAL SLAB EXPANSION JOINT DETAIL

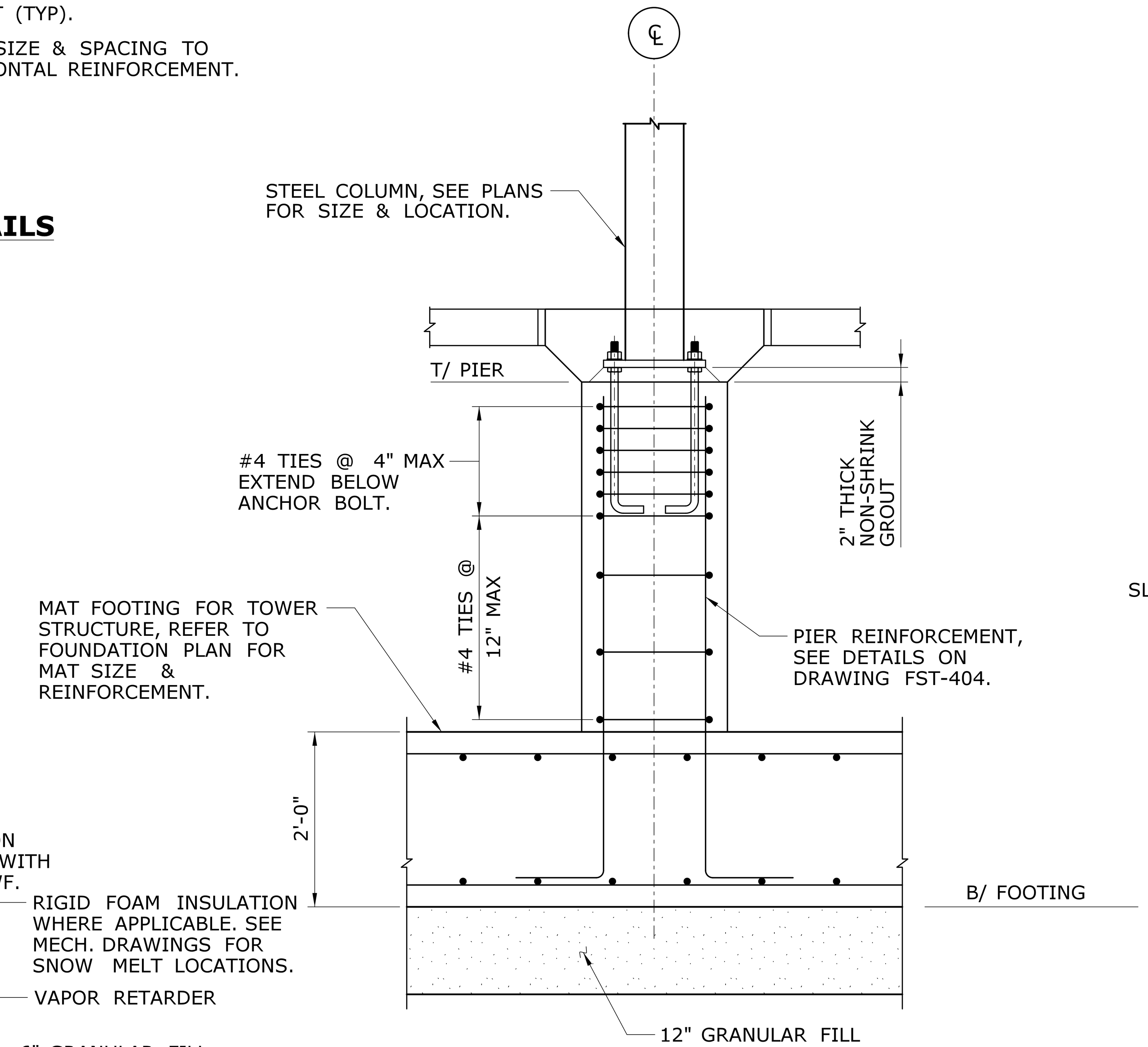
SCALE: 1 1/2" = 1'-0"



AT OPENINGS **AT CORNER**

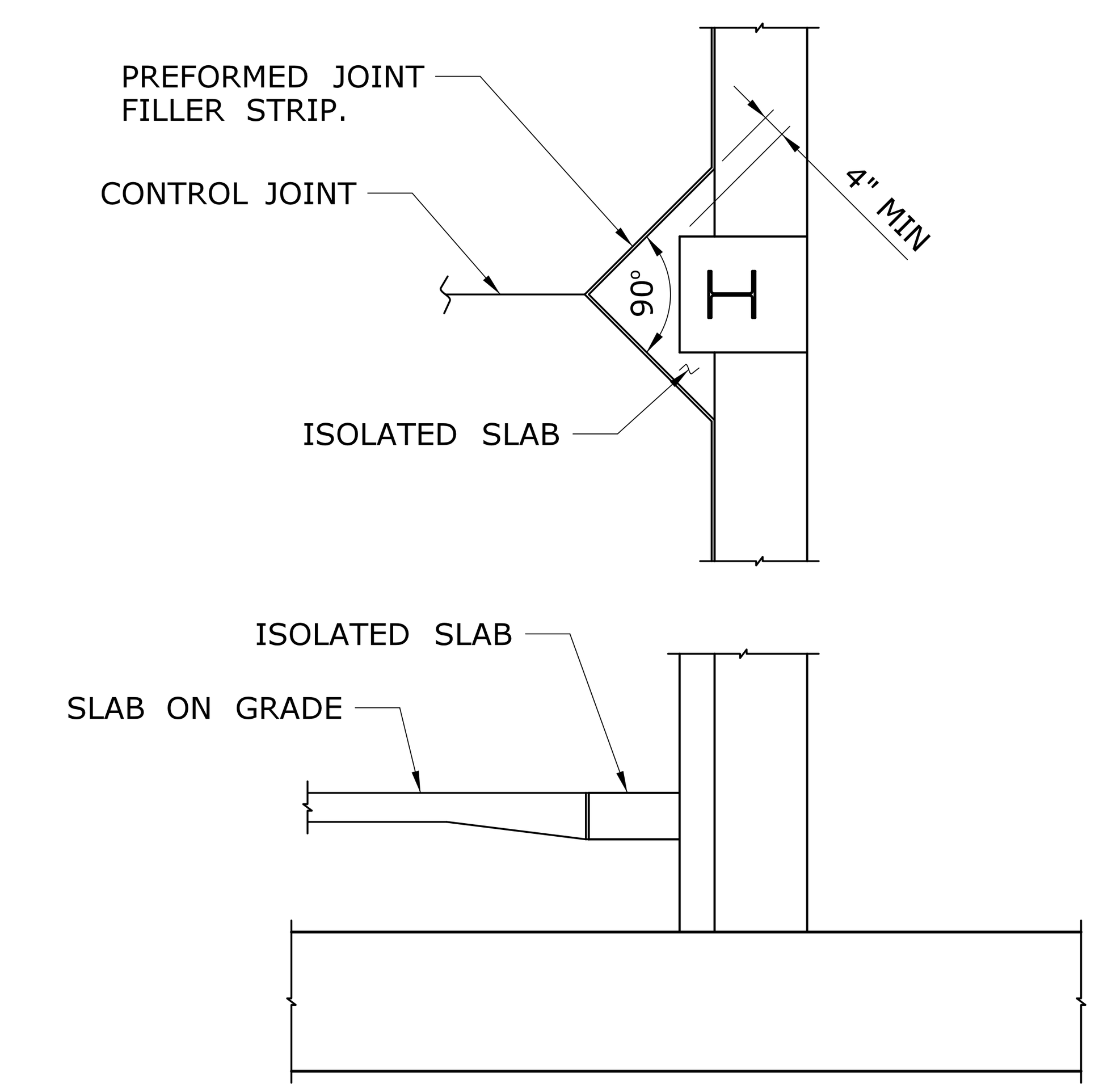
TYPICAL RE-ENTRANT DETAIL

SCALE: 3/8" = 1'-0"



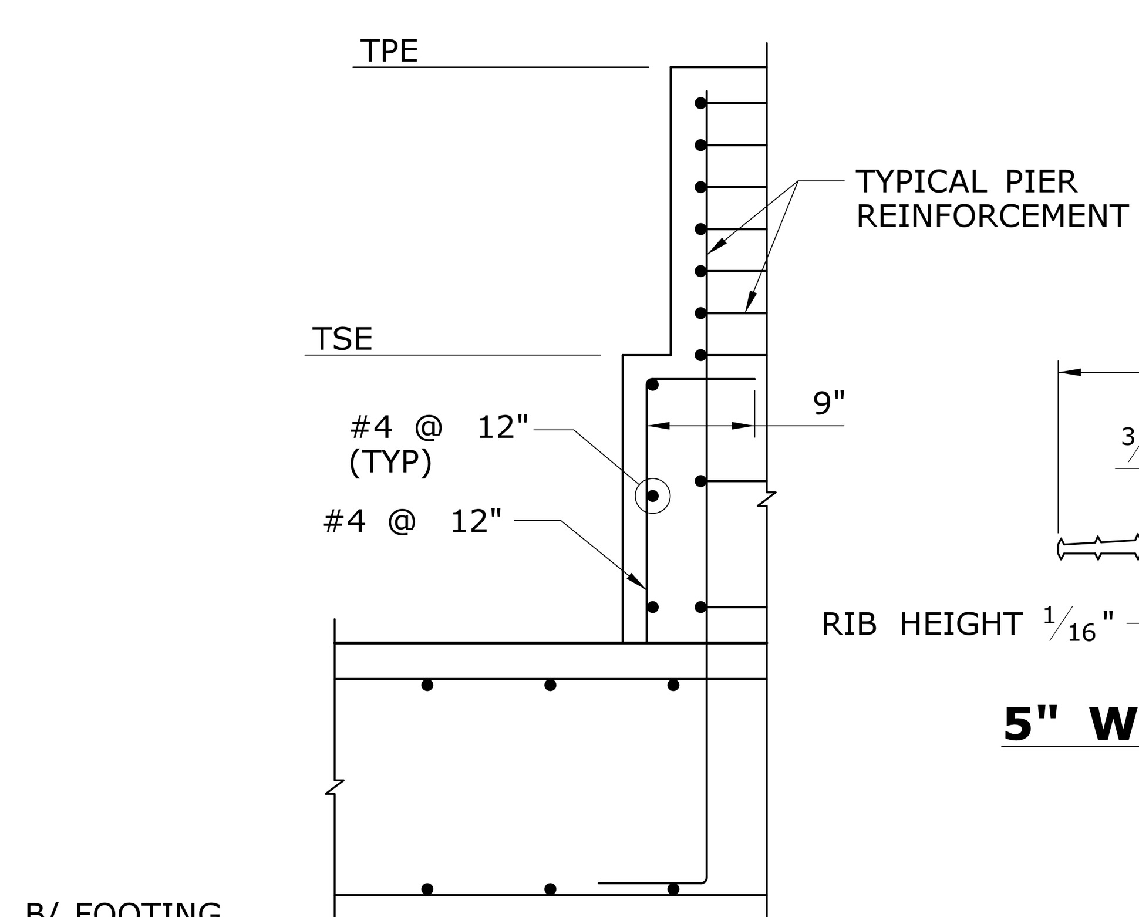
TYPICAL PIER DETAIL

SCALE: 3/4" = 1'-0"



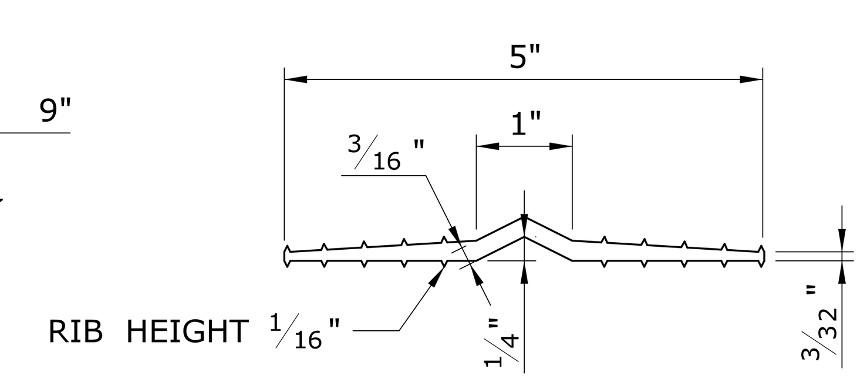
TYPICAL ISOLATION JOINT AT PIER DETAIL

SCALE: 3/8" = 1'-0"



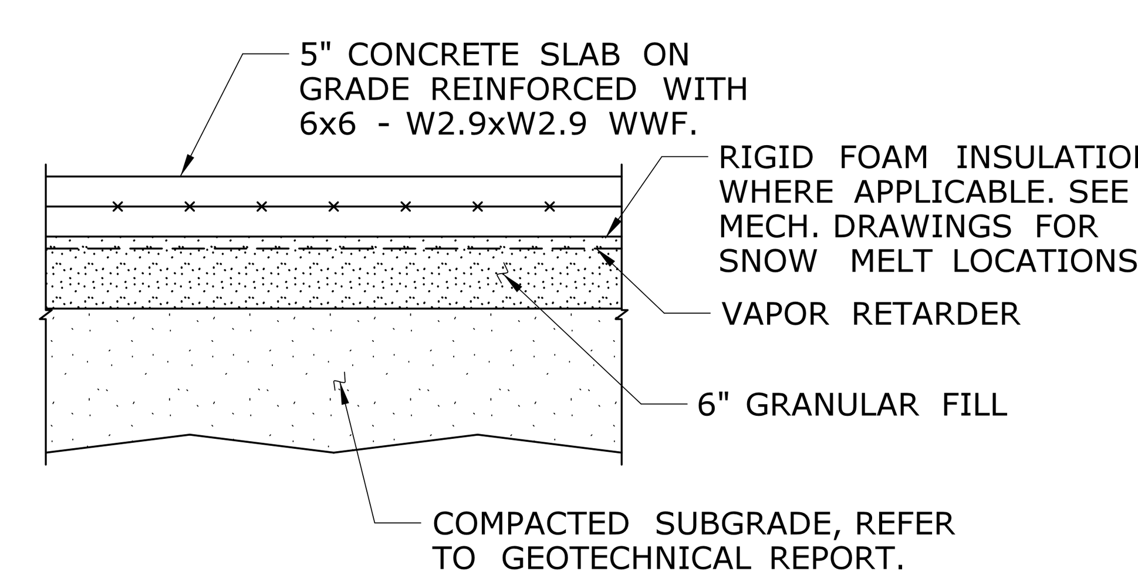
TYPICAL REINFORCEMENT AT PIER BRICK SHELF DETAIL

SCALE: 3/4" = 1'-0"



5" WATERSTOP DETAIL

SCALE: 6" = 1'-0"



NOTE:

REFER TO GENERAL NOTE, GEOTECHNICAL REPORT AND SPECIFICATIONS FOR ADDITIONAL NOTES AND REQUIREMENT.

TYPICAL SLAB ON GRADE DETAIL

SCALE: 3/4" = 1'-0"

NOTE:

FOR T/SLAB EL, TWE, TSE AND B/FOOTING EL, SEE DRAWING NOS FST-107 AND FST-108.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_215.dgn

SIGNATURE/BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE: NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

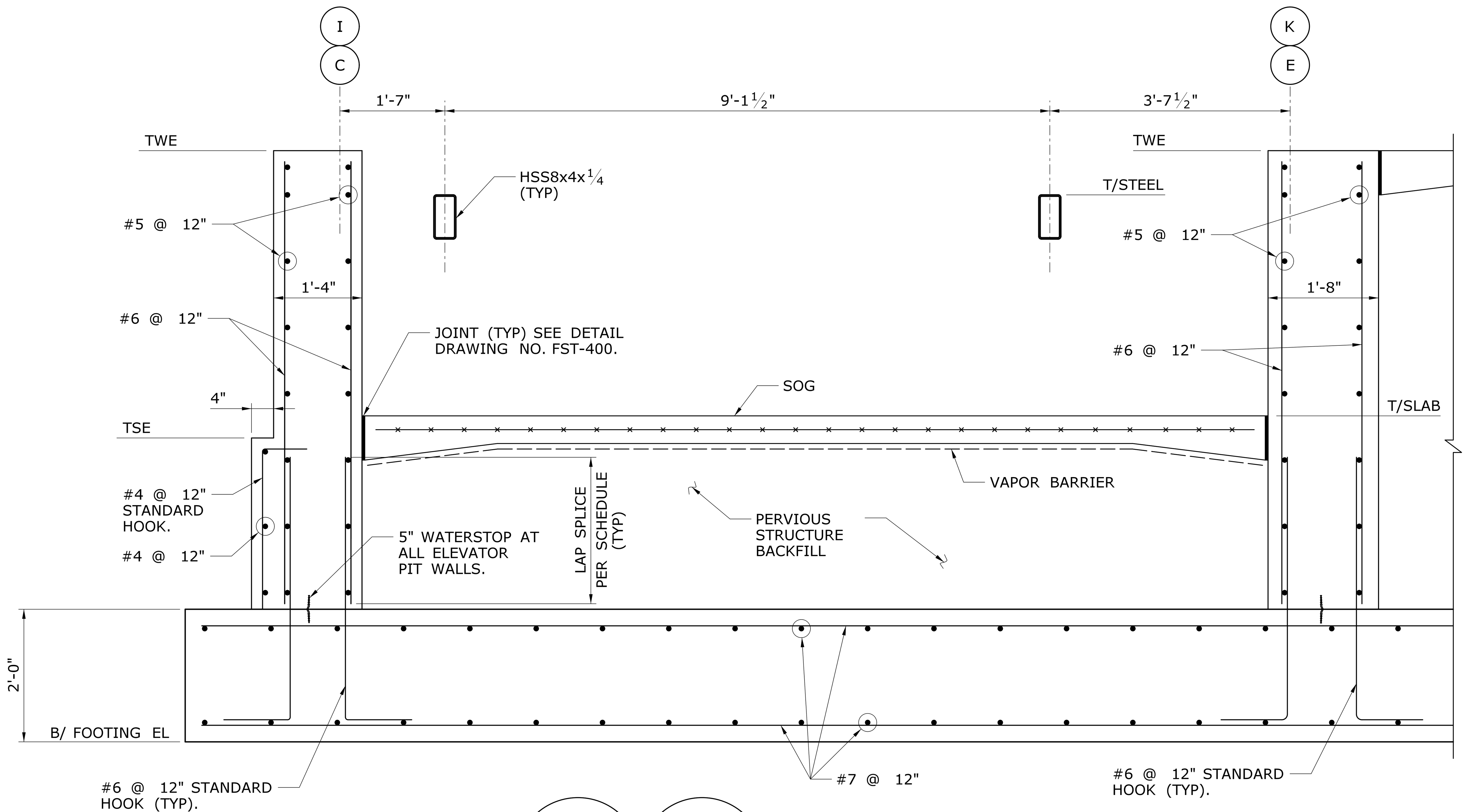
TOWN: WALLINGFORD

DRAWING TITLE: TOWER FOUNDATION DETAILS 1

PROJECT NO. 170-3155

DRAWING NO. FST-215

SHEET NO. 04.12.036



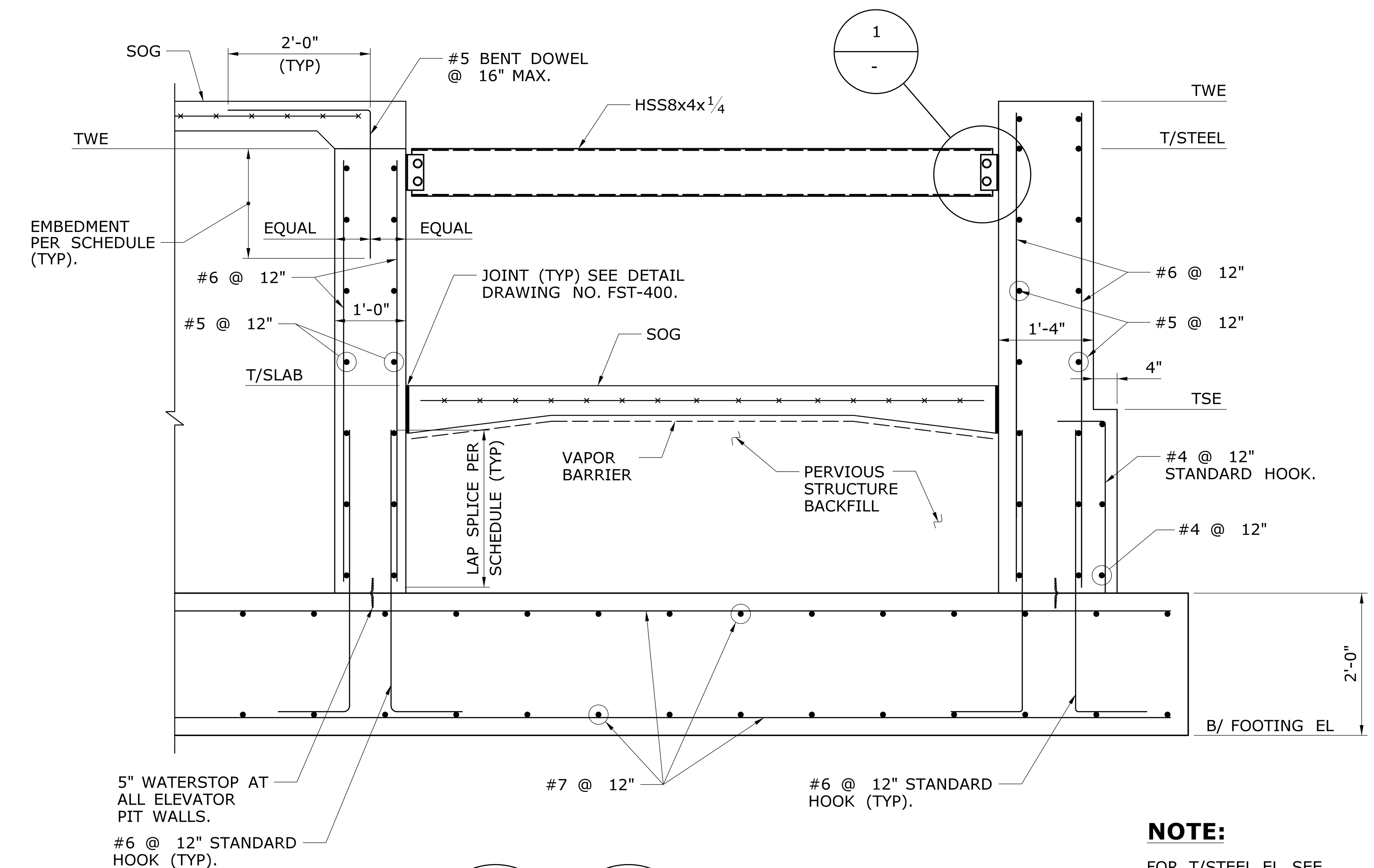
1 / FST-107 — 1 / FST-108

SECTION THRU ELEVATOR

SCALE: 3/4" = 1'-0"

NOTE:

FOR T/STEEL EL, SEE DRAWING NO. FST-107.



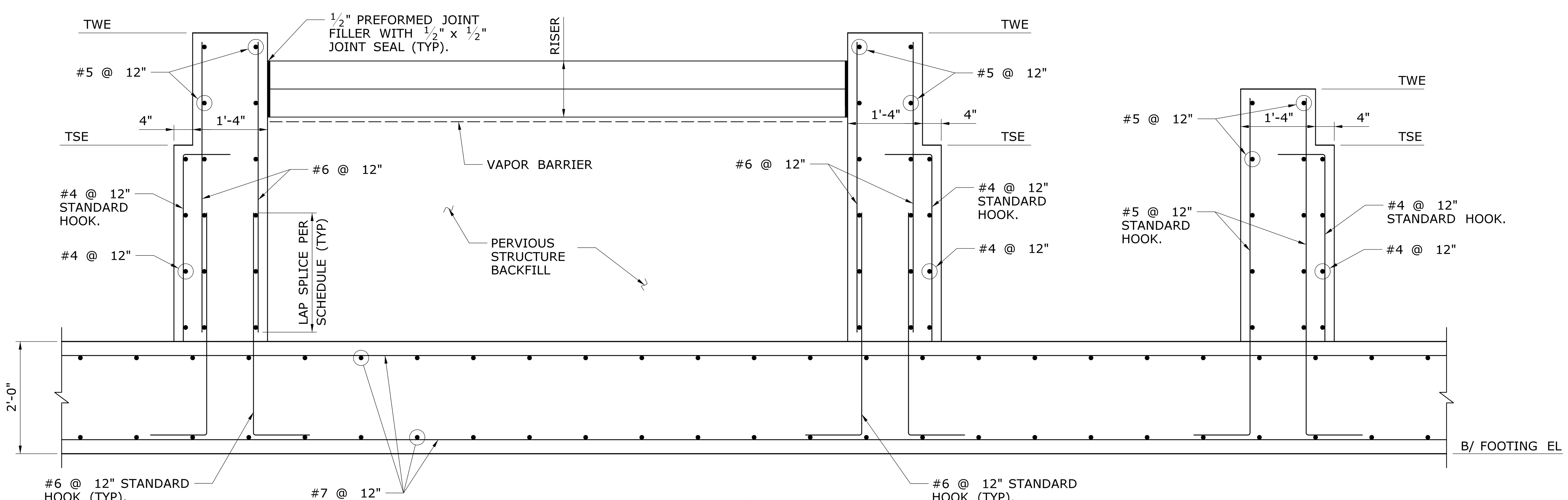
NOTE:

FOR T/STEEL EL, SEE DRAWING NO. FST-107.

2 / FST-107 — 2 / FST-108

SECTION THRU ELEVATOR

SCALE: 3/4" = 1'-0"



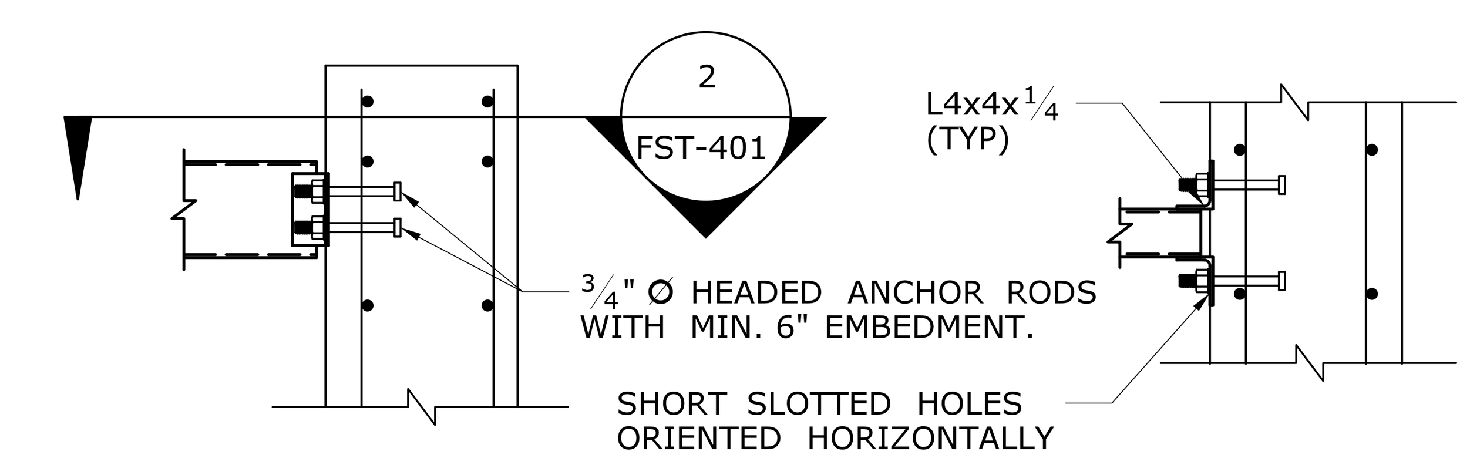
3 / FST-107

SECTION

SCALE: 3/4" = 1'-0"

NOTES:

1. SEE TOWER FOUNDATION PLANS ON DRAWING NOS. FST-107 AND FST-108.
2. FOR T/SLAB EL, TWE, TSE AND B/FOOTING EL, EE DRAWING NOS. FST-107 AND FST-108.
3. FOR SOG DETAILS, SEE DRAWING NO. FST-400.
4. FOR EMBEDMENT LENGTH AND LAP SPLICE LENGTH, SEE DRAWING NO. FST-400.
5. 12" THICK LAYER OF GRANULAR FILL BELOW FOOTING NOT SHOWN FOR CLARITY.



1 / - **DETAIL** SCALE: 3/4" = 1'-0"

2 / - **SECTION** SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_216.dgn

SIGNATURE/BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE: NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

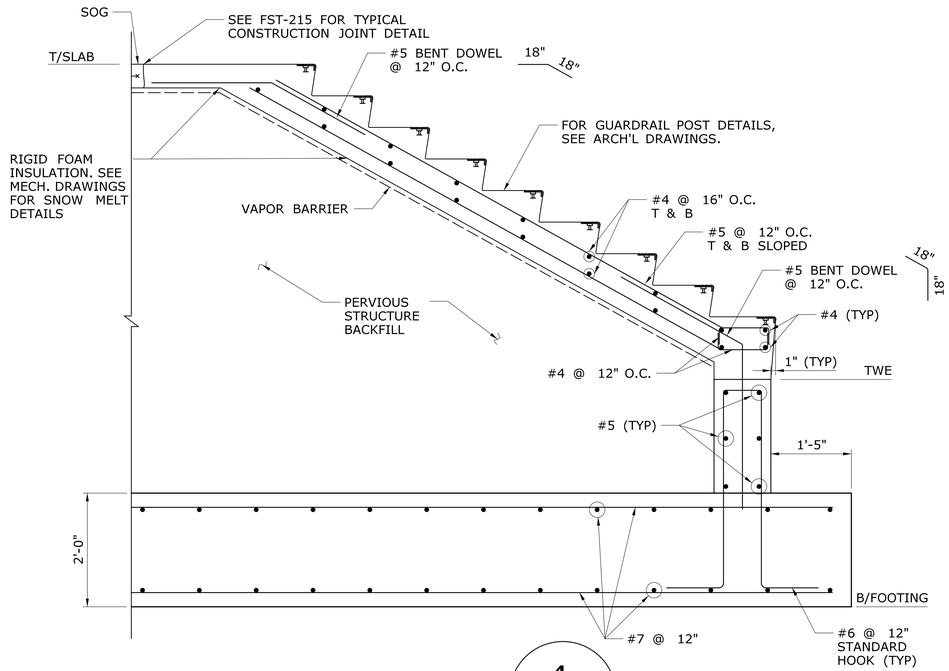
TOWN: WALLINGFORD

DRAWING TITLE: TOWER FOUNDATION DETAILS 2

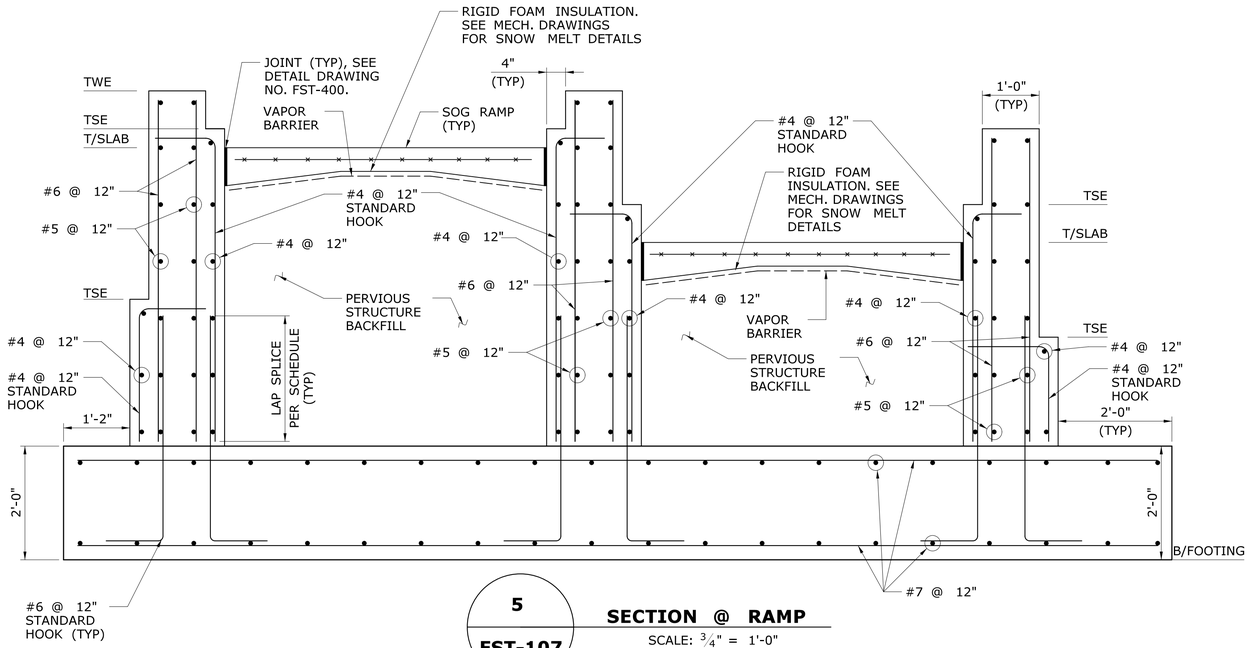
PROJECT NO. 170-3155

DRAWING NO. FST-216

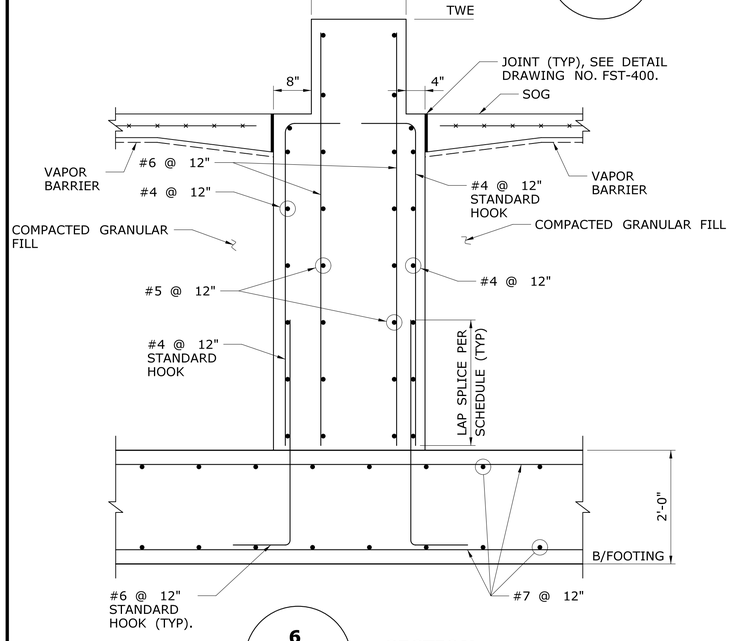
SHEET NO. 04.12.037



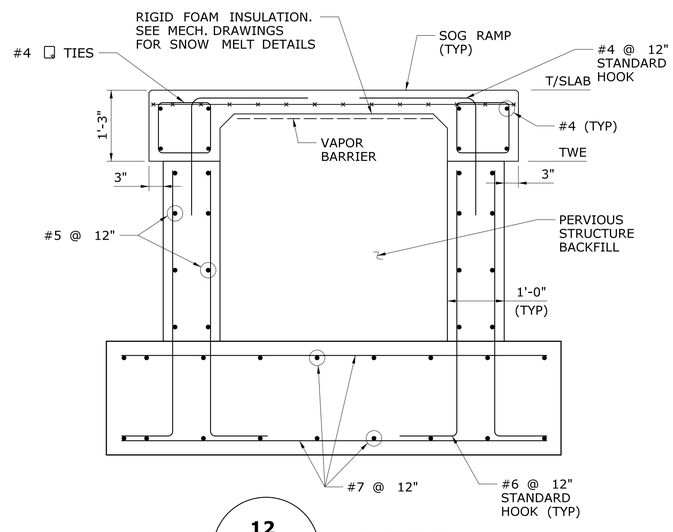
4 / **FST-107** — **SECTION**
SCALE: 3/4" = 1'-0"



5 / **FST-107** — **SECTION @ RAMP**
SCALE: 3/4" = 1'-0"



6 / **FST-107** — **SECTION**
SCALE: 3/4" = 1'-0"



12 / **FST-108** — **SECTION**
SCALE: 3/4" = 1'-0"

PIER #	INITIAL ELEVATION	FINAL ELEVATION	PIER #	INITIAL ELEVATION	FINAL ELEVATION
1	-0'-8"	+0'-0"	7	-0'-8"	+0'-0"
1A	-0'-8"	+0'-0"	7A	-0'-8"	+0'-0"
2	-0'-8"	+0'-0"	8	VARIES	+8" FROM INITIAL
2A	-0'-8"	+0'-0"	8A	+0'-8"	+1'-4"
3	-0'-8"	+0'-0"	9	-0'-8"	+0'-0"
4	+0'-8"	+1'-4"	9A	-0'-8"	+0'-0"
5	+0'-8"	+1'-4"	10	-0'-8"	+0'-0"
6	+0'-8"	+1'-4"	11	-0'-8"	+0'-0"

NOTES:

1. SEE TOWER FOUNDATION PLANS ON DRAWING NOS. FST-107 AND FST-108.
2. FOR T/SLAB EL, TWE, TSE AND B/FOOTING EL, SEE DRAWING NOS. FST-107 AND FST-108.
3. FOR SOG DETAILS, SEE DRAWING NO. FST-400.
4. FOR EMBEDMENT LENGTH AND LAP SPLICE LENGTH, SEE DRAWING NO. FST-400.
5. 12" THICK LAYER OF GRANULAR FILL BELOW FOOTING NOT SHOWN FOR CLARITY.
6. THE INITIAL PIER ELEVATIONS GIVEN ON FST-107 & FST-108 ARE TO BE MADE PRIOR TO COLUMN INSTALLATION. FINAL PIER ELEVATIONS GIVEN IN THE TABLE ON FST-217 ARE TO BE MADE CONCURRENTLY WITH SLAB ON GRADE CONSTRUCTION.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **J POPOLI**
CHECKED BY: **H BUI**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...217.dgn

SIGNATURE/ BLOCK:

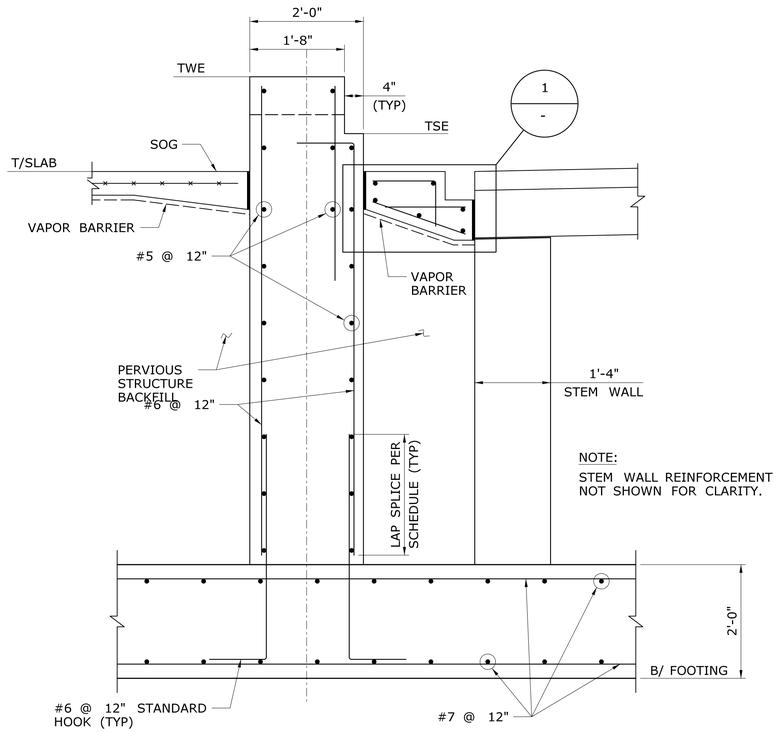
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

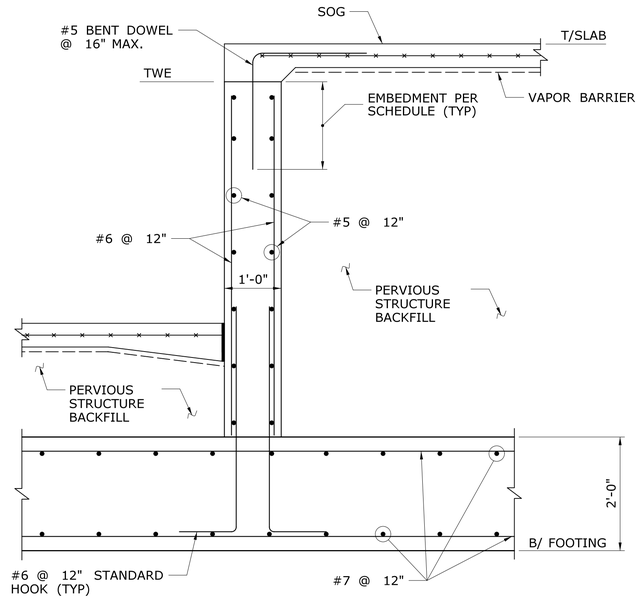
TOWN: **WALLINGFORD**

DRAWING TITLE: **TOWER FOUNDATION DETAILS 3**

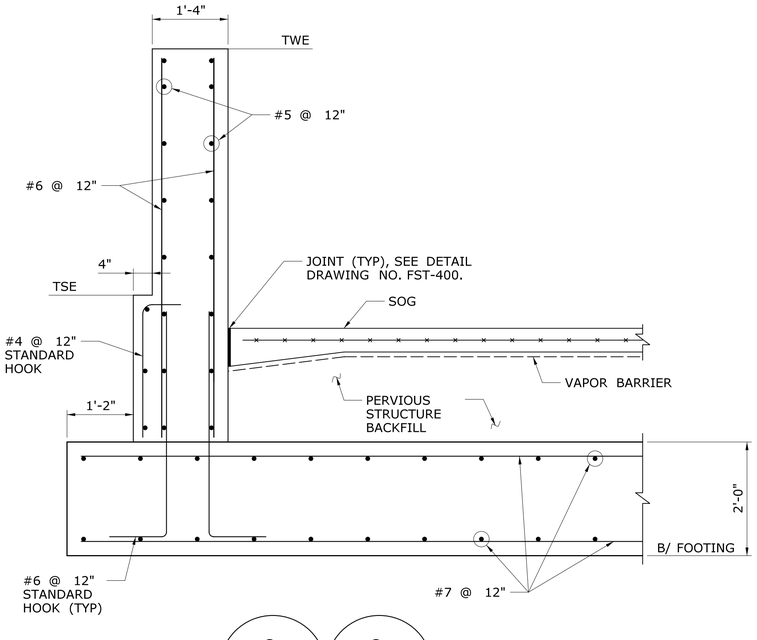
PROJECT NO. **170-3155**
DRAWING NO. **FST-217**
SHEET NO. **04.12.038**



7 / FST-107 — 7 / FST-108 SECTION
SCALE: 3/4" = 1'-0"



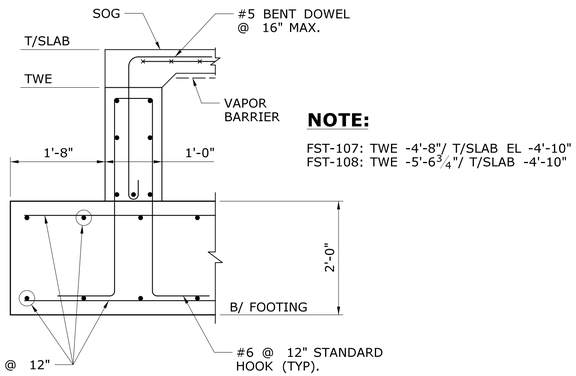
8 / FST-107 — 8 / FST-108 SECTION
SCALE: 3/4" = 1'-0"



9 / FST-107 — 9 / FST-108 SECTION
SCALE: 3/4" = 1'-0"

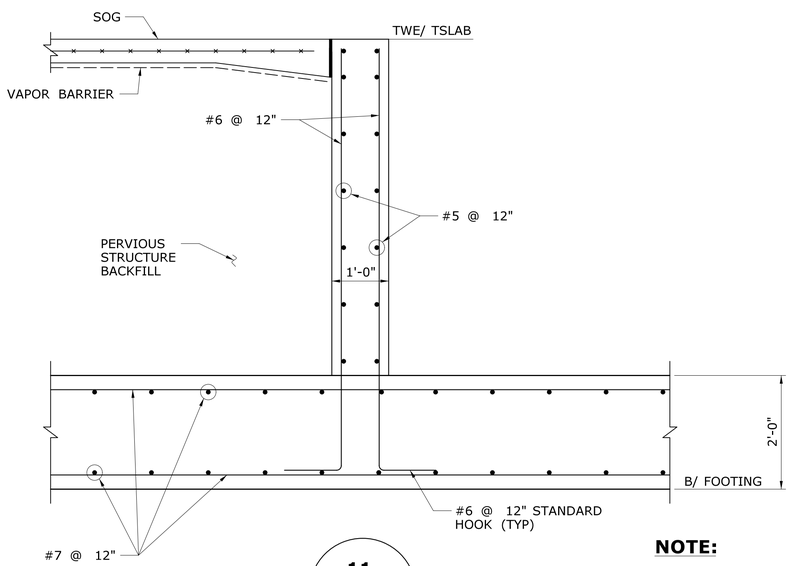
NOTES:

1. SEE TOWER FOUNDATION PLANS ON DRAWING NOS. FST-107 AND FST-108.
2. FOR T/SLAB EL, TWE, TSE AND B/FOOTING EL, SEE DRAWING NOS. FST-107 AND FST-108.
3. FOR SOG DETAILS, SEE DRAWING NO. FST-400.
4. FOR EMBEDMENT LENGTH AND LAP SPLICE LENGTH, SEE DRAWING NO. FST-400.
5. 12" THICK LAYER OF GRANULAR FILL BELOW FOOTING NOT SHOWN FOR CLARITY.



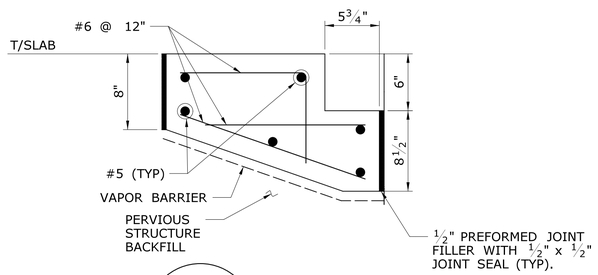
NOTE:
FST-107: TWE -4'-8"/ T/SLAB EL -4'-10"
FST-108: TWE -5'-6 3/4"/ T/SLAB -4'-10"

10 / FST-107 — 10 / FST-108 SECTION
SCALE: 3/4" = 1'-0"



11 / FST-107 SECTION
SCALE: 3/4" = 1'-0"

NOTE:
BRICK VENEER NOT
SHOWN FOR CLARITY.



1 / - DETAIL
SCALE: 1-1/2" = 1'-0"

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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..-07..FST..-218.dgn

SIGNATURE/ BLOCK:

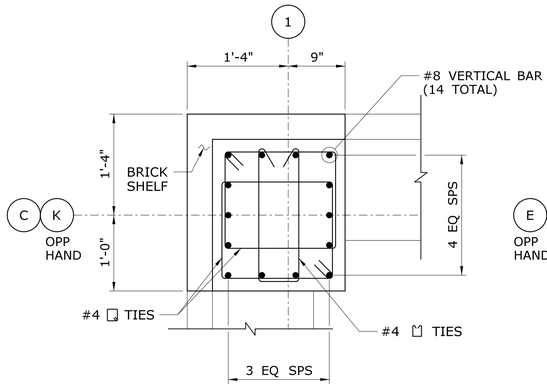
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

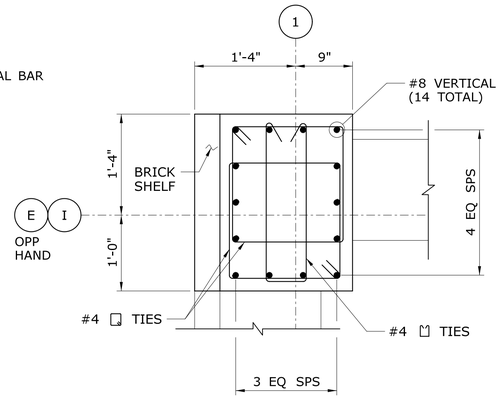
TOWN: WALLINGFORD

DRAWING TITLE:
TOWER FOUNDATION
DETAILS 4

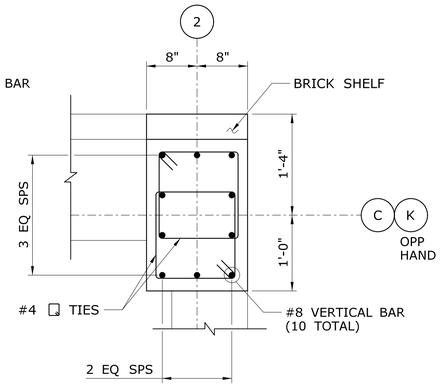
PROJECT NO. 170-3155
DRAWING NO. FST-218
SHEET NO. 04.12.039



PLAN - PIER 1
SCALE: 1" = 1'-0"



PLAN - PIER 1A
SCALE: 1" = 1'-0"



PLAN - PIER 2
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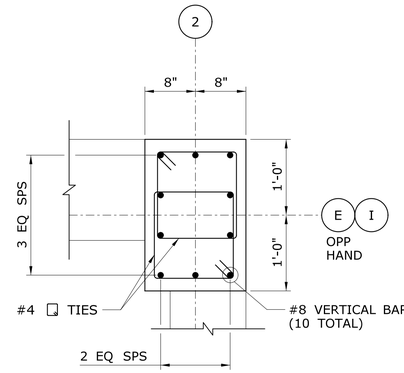
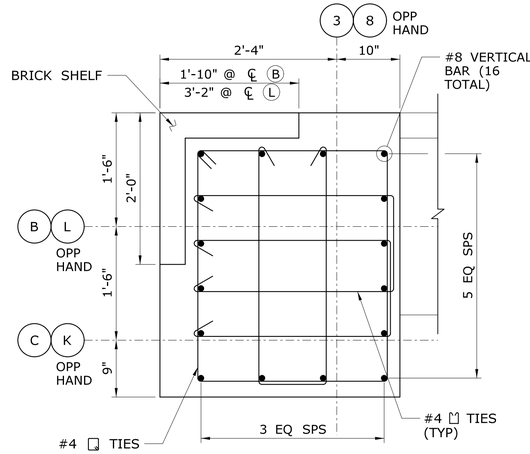
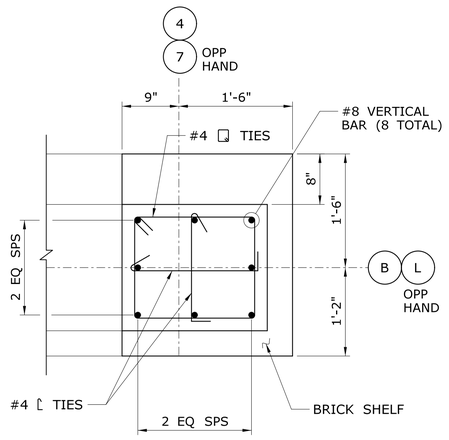


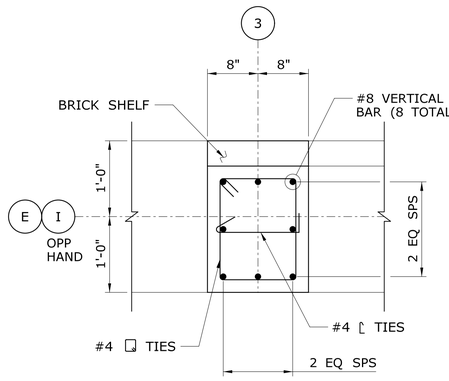
PLAN - PIER 2A
SCALE: 1" = 1'-0"



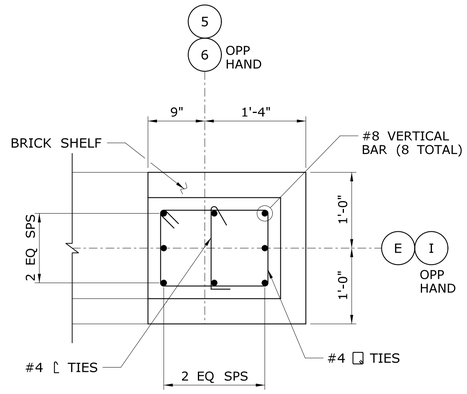
PLAN - PIER 3
SCALE: 1" = 1'-0"



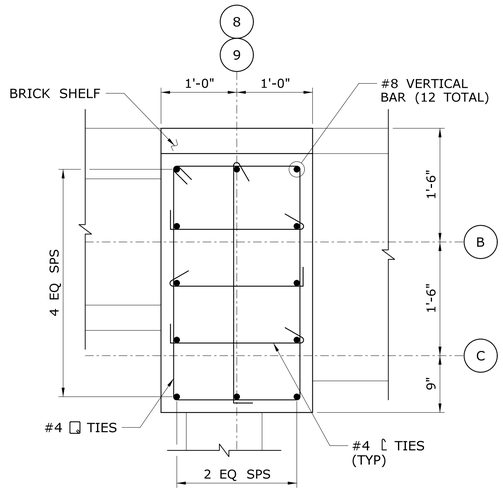
PLAN - PIER 4
SCALE: 1" = 1'-0"



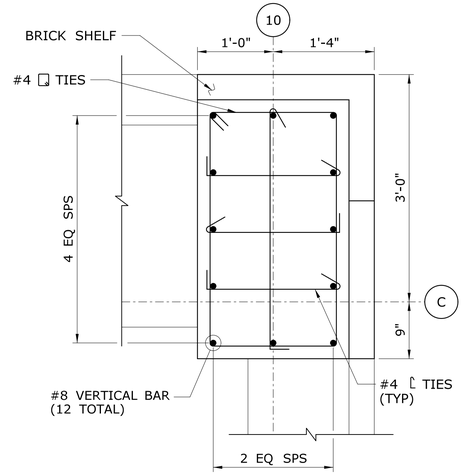
PLAN - PIER 5
SCALE: 1" = 1'-0"



PLAN - PIER 6
SCALE: 1" = 1'-0"



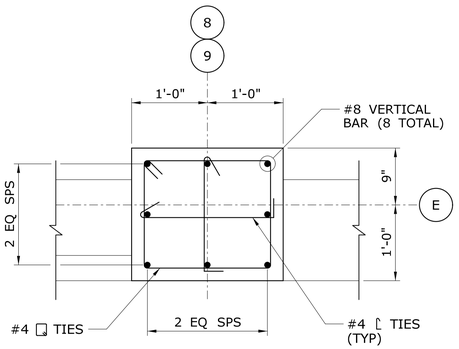
PLAN - PIER 7
SCALE: 1" = 1'-0"



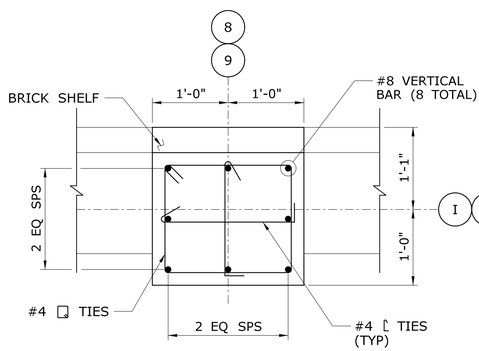
PLAN - PIER 7A
SCALE: 1" = 1'-0"

NOTE:

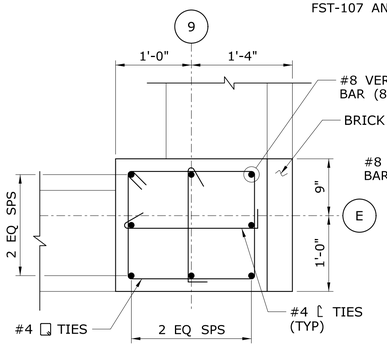
FOR FOUNDATION PLANS,
SEE DRAWING NOS.
FST-107 AND FST-108.



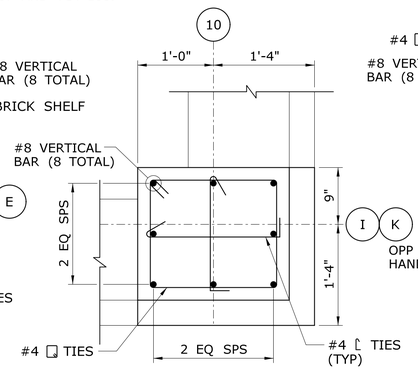
PLAN - PIER 8
SCALE: 1" = 1'-0"



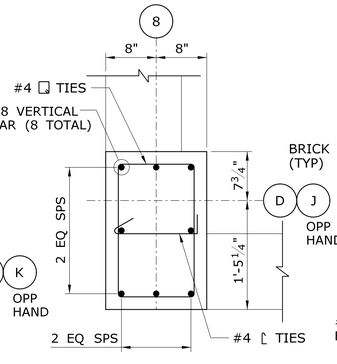
PLAN - PIER 8A
SCALE: 1" = 1'-0"



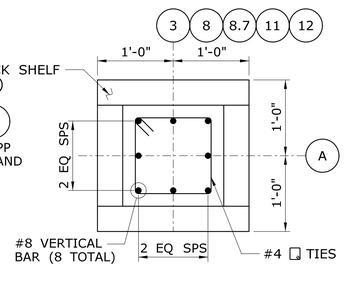
PLAN - PIER 9
SCALE: 1" = 1'-0"



PLAN - PIER 9A
SCALE: 1" = 1'-0"



PLAN - PIER 10
SCALE: 1" = 1'-0"



PLAN - PIER 11
SCALE: 1" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...219.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · DEPARTMENT OF TRANSPORTATION · No. 17758 · LICENSED PROFESSIONAL ENGINEER

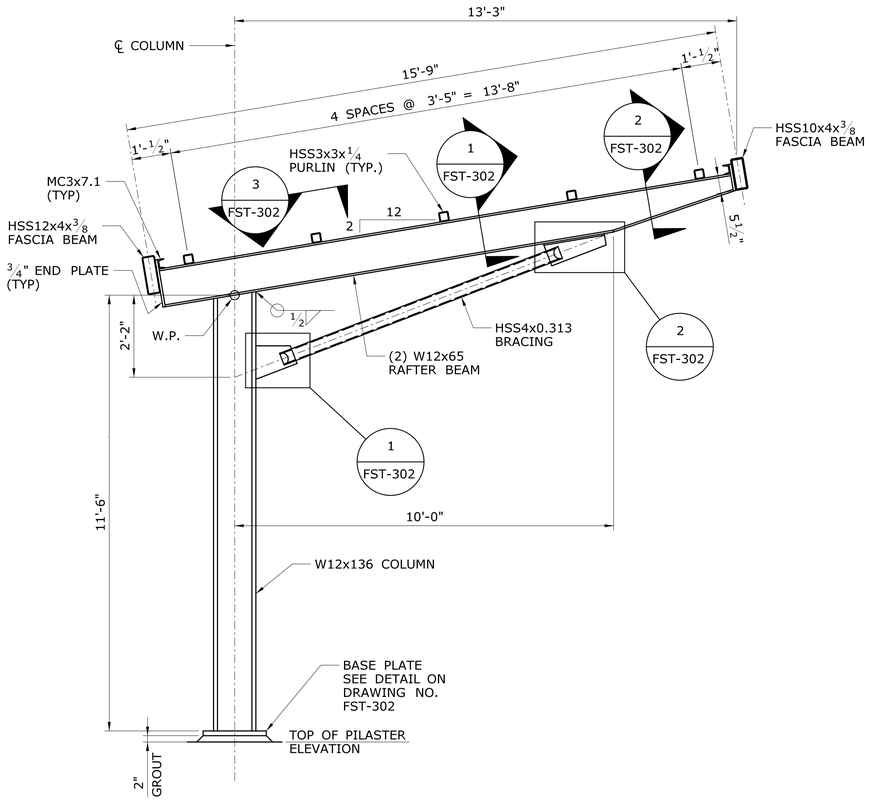
TrainSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

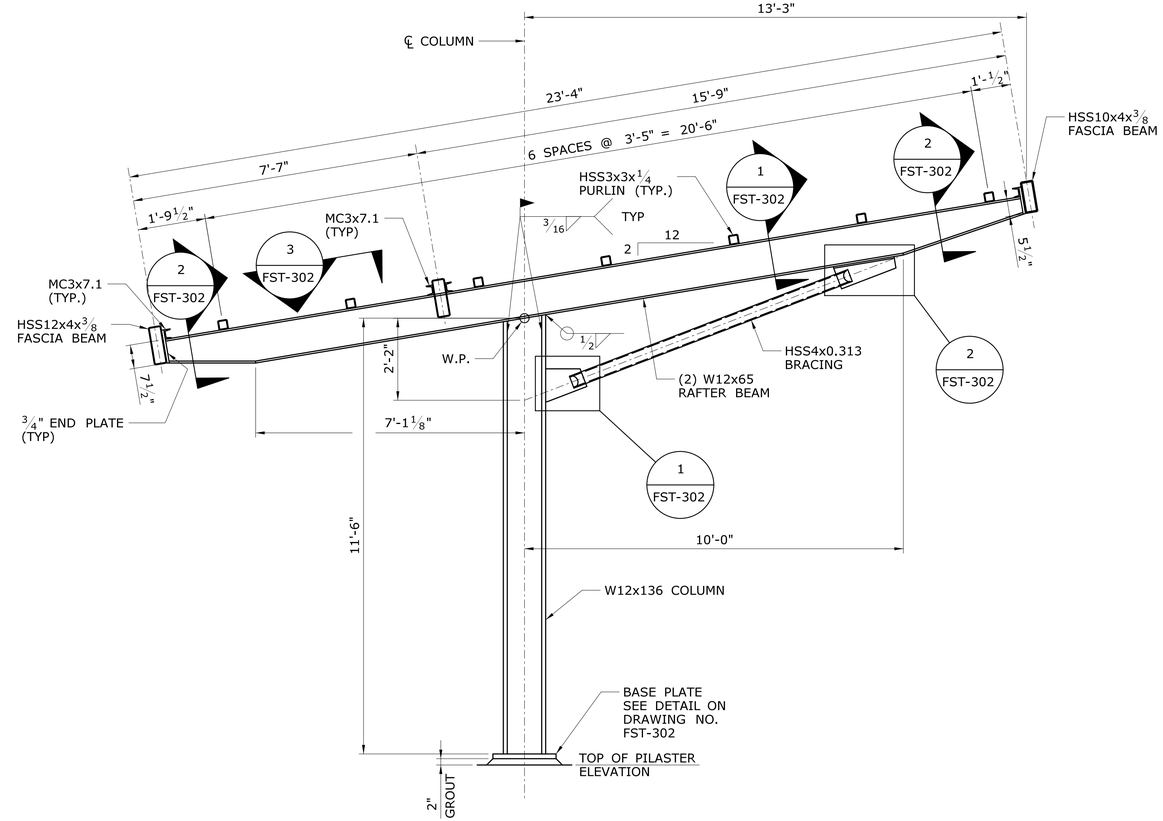
DRAWING TITLE: **TOWER FOUNDATION DETAILS 5**

PROJECT NO. **170-3155**
DRAWING NO. **FST-219**
SHEET NO. **04.12.040**

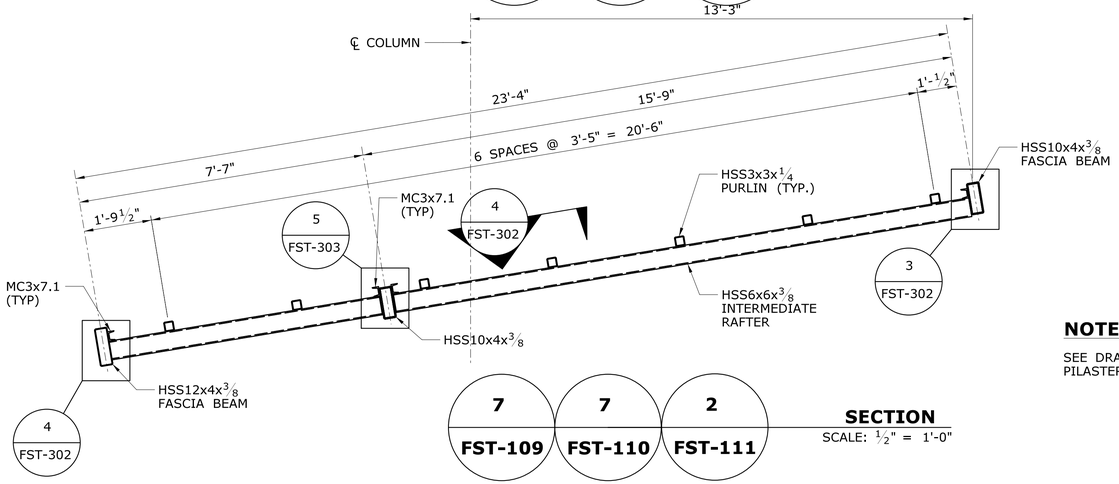


1 FST-109 | 1 FST-110 **SECTION**
SCALE: ½" = 1'-0"

6 FST-109 | 6 FST-110 **SECTION**
SCALE: ½" = 1'-0"



2 FST-109 | 2 FST-110 | 2 FST-111 **SECTION**
SCALE: ½" = 1'-0"



7 FST-109 | 7 FST-110 | 2 FST-111 **SECTION**
SCALE: ½" = 1'-0"

NOTE:

SEE DRAWING NO. FST-210 FOR TOP OF PILASTER ELEVATIONS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...300.dgn

SIGNATURE/ BLOCK:

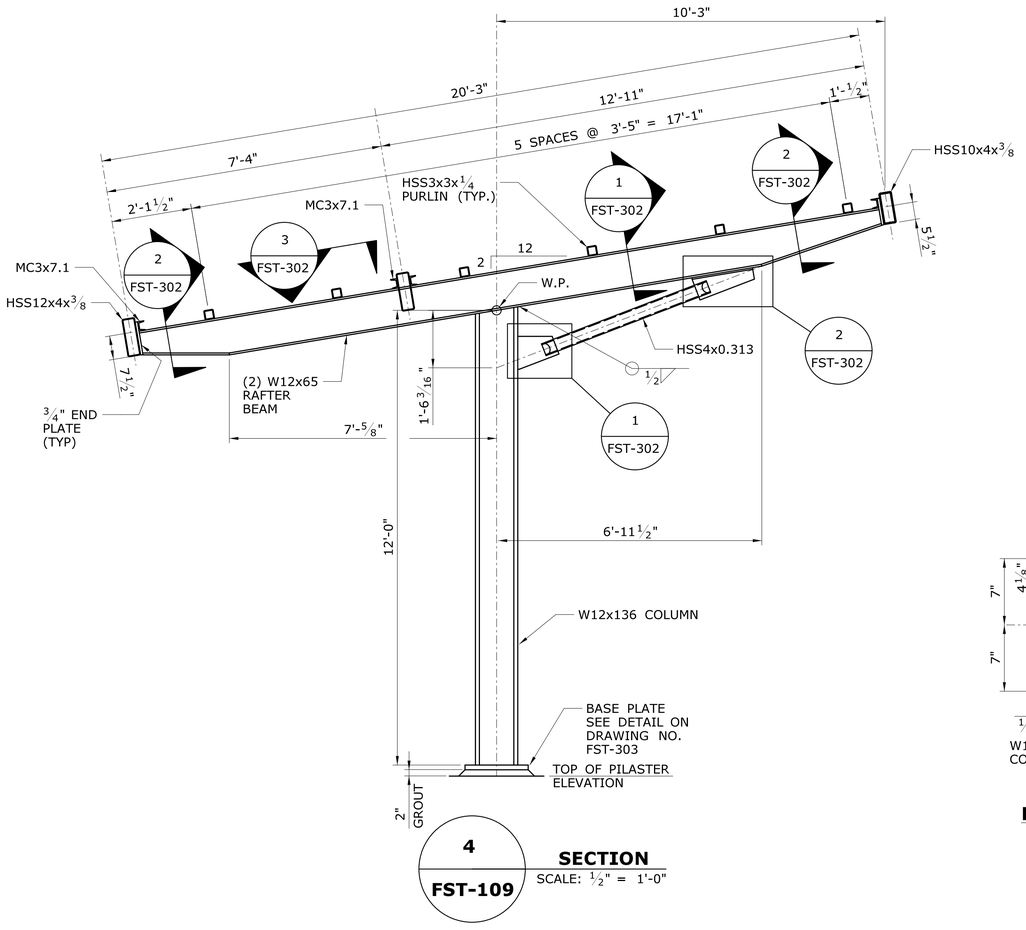
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

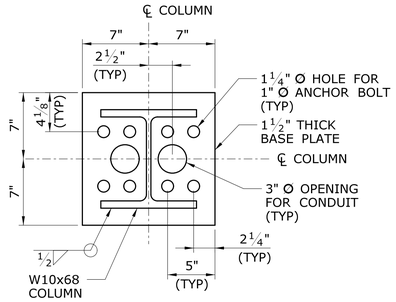
TOWN: **WALLINGFORD**

DRAWING TITLE: **CANOPY SECTIONS & DETAILS 1**

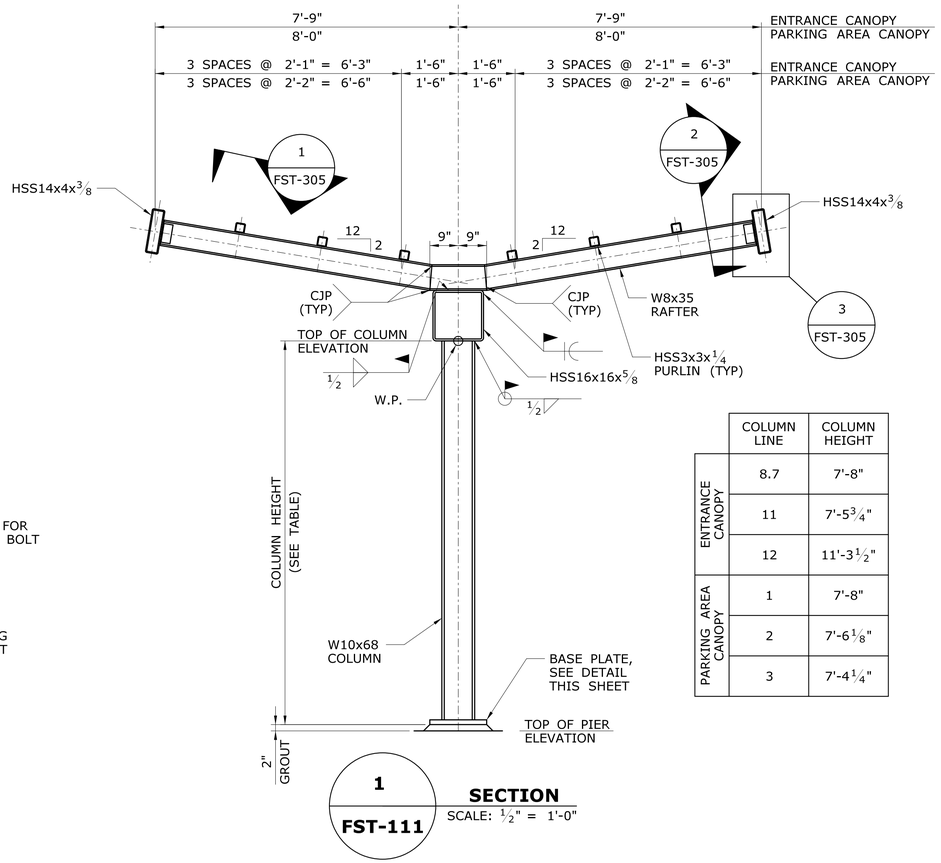
PROJECT NO. **170-3155**
DRAWING NO. **FST-300**
SHEET NO. **04.12.041**



4 FST-109 **SECTION**
SCALE: ½" = 1'-0"

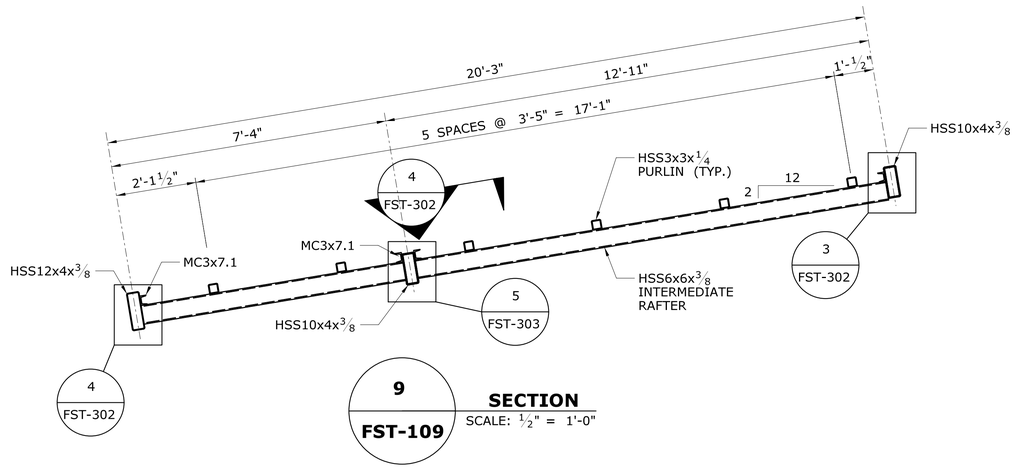


BASE PLATE DETAIL
SCALE: 1½" = 1'-0"

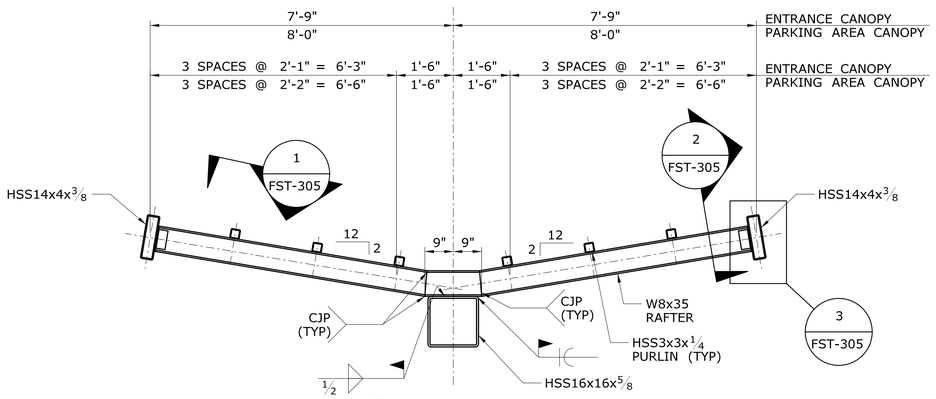


	COLUMN LINE	COLUMN HEIGHT
ENTRANCE CANOPY	8.7	7'-8"
	11	7'-5¾"
	12	11'-3½"
PARKING AREA CANOPY	1	7'-8"
	2	7'-6⅛"
	3	7'-4¼"

1 FST-111 **SECTION**
SCALE: ½" = 1'-0"



9 FST-109 **SECTION**
SCALE: ½" = 1'-0"



2 FST-111 **SECTION**
SCALE: ½" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...301.dgn

SIGNATURE/ BLOCK:

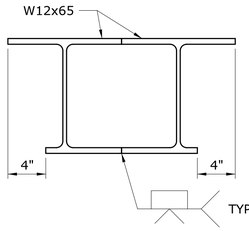
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

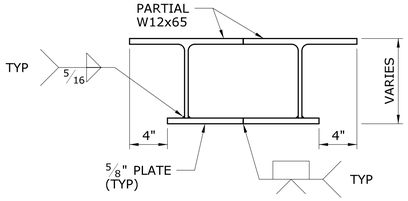
TOWN: **WALLINGFORD**

DRAWING TITLE:
CANOPY SECTIONS & DETAILS 2

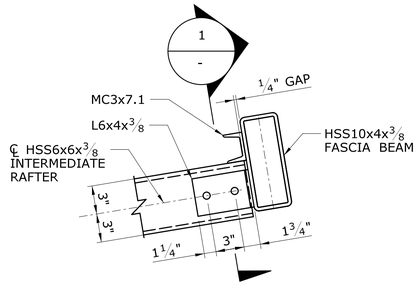
PROJECT NO. **170-3155**
DRAWING NO. **FST-301**
SHEET NO. **04.12.042**



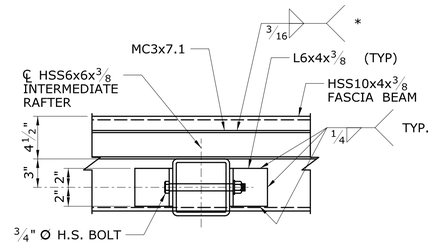
1 / 1 — FST-300 / FST-301 — **SECTION**
SCALE: 1½" = 1'-0"



2 / 2 — FST-300 / FST-301 — **SECTION**
SCALE: 1½" = 1'-0"

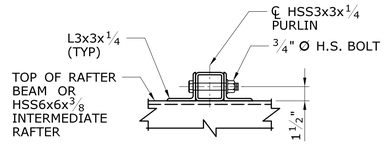


3 / 3 — FST-300 / FST-301 — **DETAIL**
SCALE: 1½" = 1'-0"

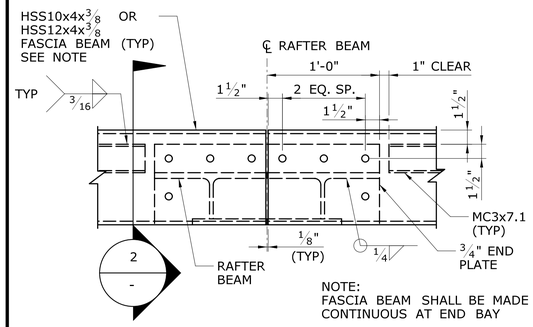


* OMIT WELD @ RAFTER BEAMS CONNECTION.

1 / - — **SECTION**
SCALE: 1½" = 1'-0"

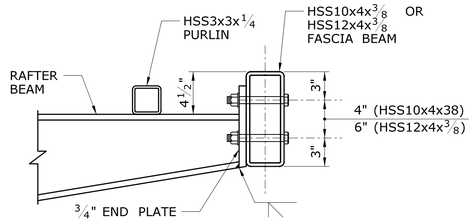


3 / - — **SECTION**
SCALE: 1½" = 1'-0"

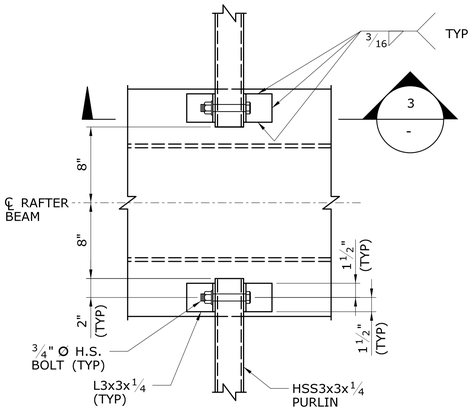


NOTE:
FASCIA BEAM SHALL BE MADE CONTINUOUS AT END BAY

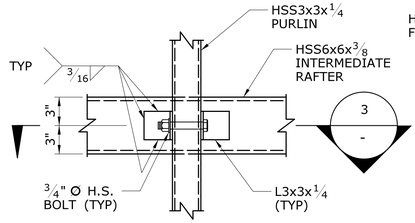
TYPICAL FASCIA BEAM CONNECTION
SCALE: 1½" = 1'-0"



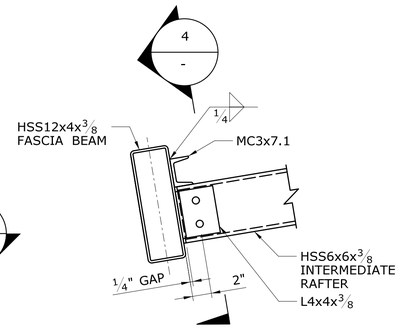
2 / - — **SECTION**
SCALE: 1½" = 1'-0"



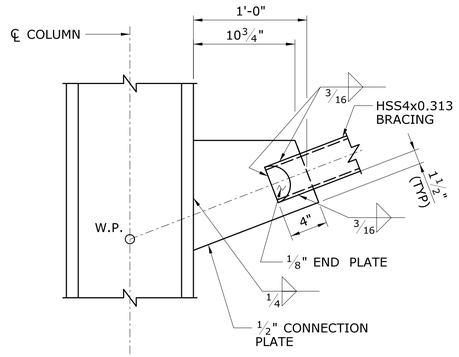
3 / 3 — FST-300 / FST-301 — **VIEW**
SCALE: 1½" = 1'-0"



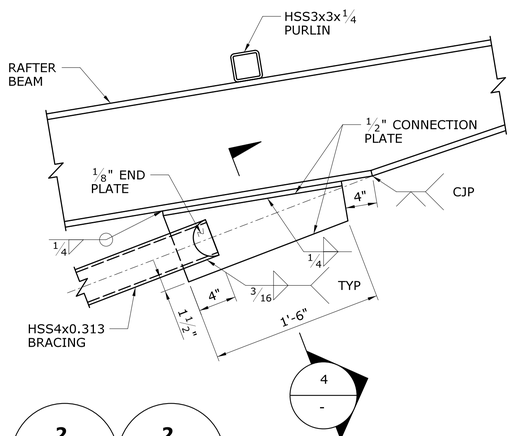
4 / 4 — FST-300 / FST-301 — **VIEW**
SCALE: 1½" = 1'-0"



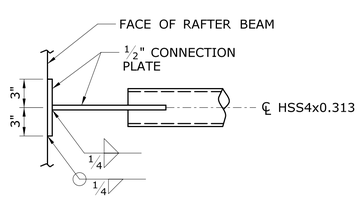
4 / 4 — FST-300 / FST-301 — **DETAIL**
SCALE: 1½" = 1'-0"



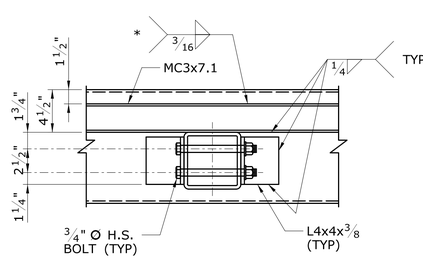
1 / 1 — FST-300 / FST-301 — **DETAIL**
SCALE: 1½" = 1'-0"



2 / 2 — FST-300 / FST-301 — **DETAIL**
SCALE: 1½" = 1'-0"



4 / - — **DETAIL**
SCALE: 1½" = 1'-0"



* OMIT WELD @ RAFTER BEAMS CONNECTION.

4 / - — **SECTION**
SCALE: 1½" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...302.dgn

SIGNATURE/ BLOCK:

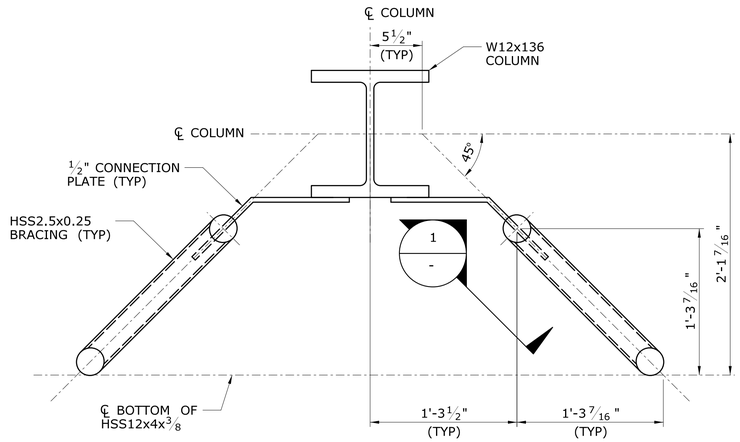
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

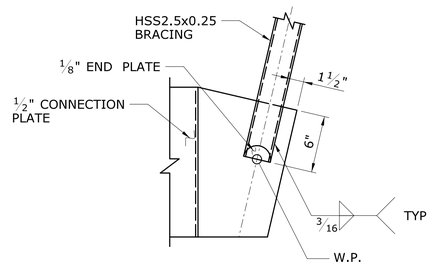
TOWN: **WALLINGFORD**

DRAWING TITLE: **CANOPY SECTIONS & DETAILS 3**

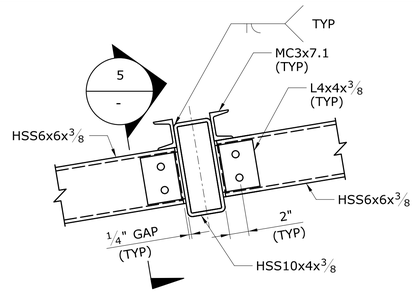
PROJECT NO. **170-3155**
DRAWING NO. **FST-302**
SHEET NO. **04.12.043**



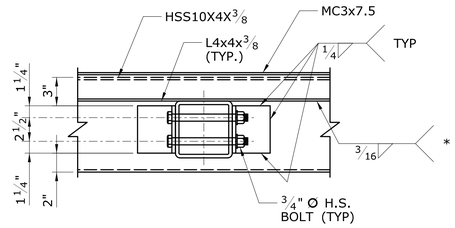
PLAN - CANOPY BRACING
SCALE: 1½" = 1'-0"



1 / - SECTION
SCALE: 1½" = 1'-0"

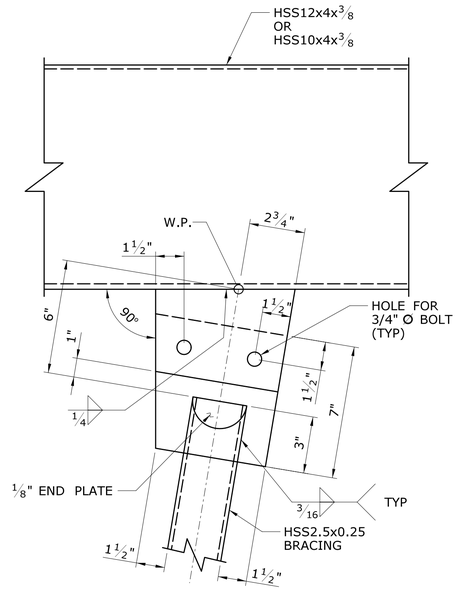


5 / FST-300 — 5 / FST-301 DETAIL
SCALE: 1½" = 1'-0"

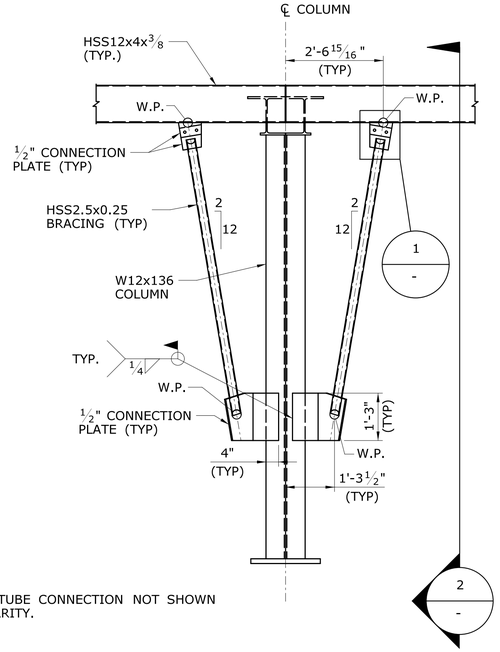


* OMIT WELD AT RAFTER BEAM CONNECTIONS.

5 / - SECTION
SCALE: 1½" = 1'-0"

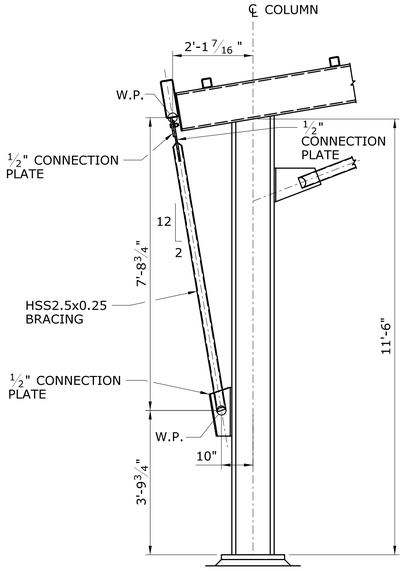


1 / - DETAIL
SCALE: 3" = 1'-0"

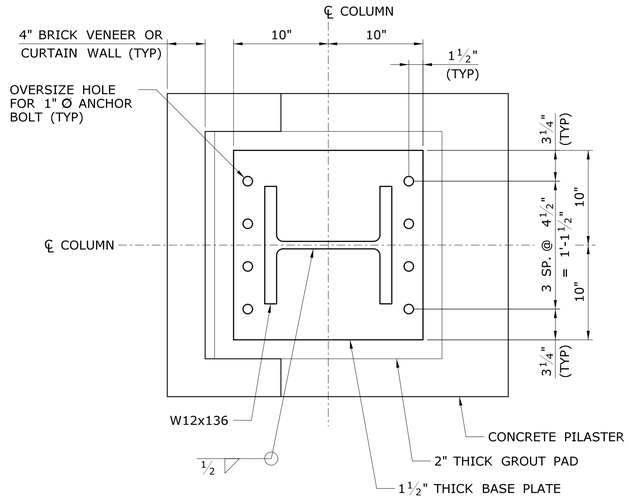


NOTE:
FASCIA TUBE CONNECTION NOT SHOWN FOR CLARITY.

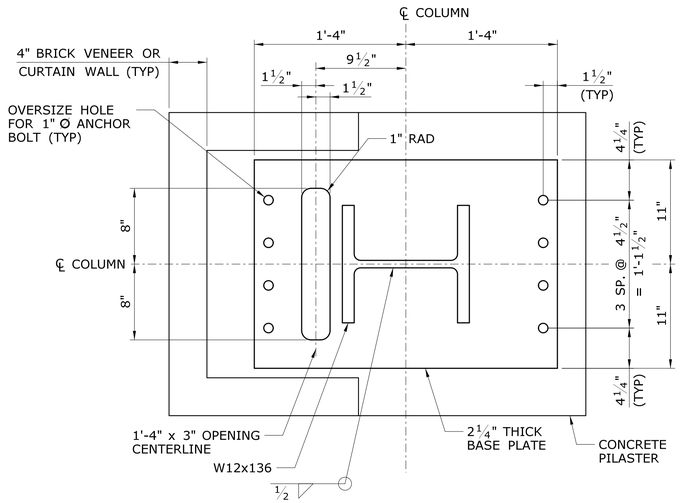
ELEVATION - CANOPY BRACING
SCALE: ½" = 1'-0"



2 / - VIEW
SCALE: ½" = 1'-0"



BASE PLATE DETAIL
SCALE: 1½" = 1'-0"



BASE PLATE DETAIL @ UTILITY COLUMN
SCALE: 1½" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_303.dgn

SIGNATURE/BLOCK:

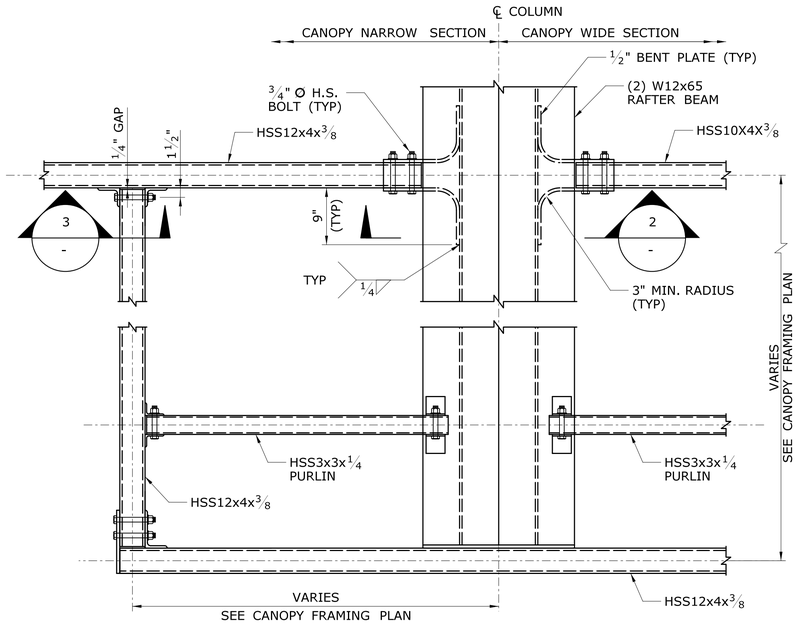
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

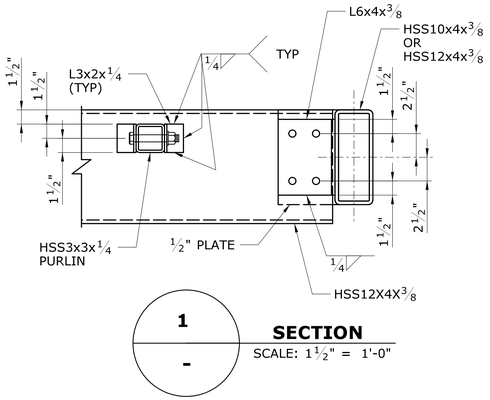
DRAWING TITLE: CANOPY SECTIONS & DETAILS 4

PROJECT NO. 170-3155
DRAWING NO. FST-303
SHEET NO. 04.12.044



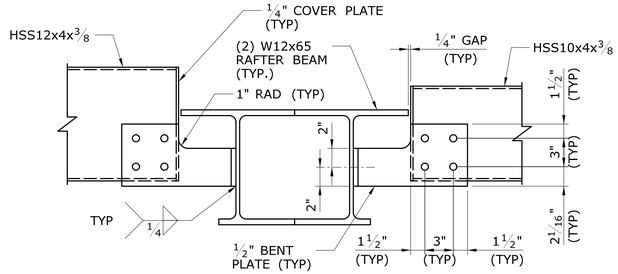
PLAN - TYPICAL WIDTH TRANSITION DETAIL

SCALE: 1" = 1'-0"



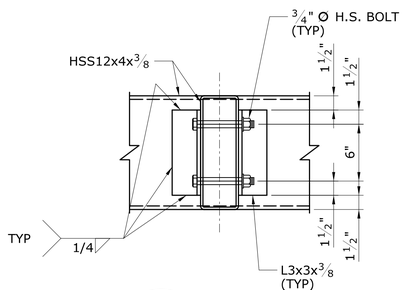
1 / - **SECTION**

SCALE: 1 1/2" = 1'-0"



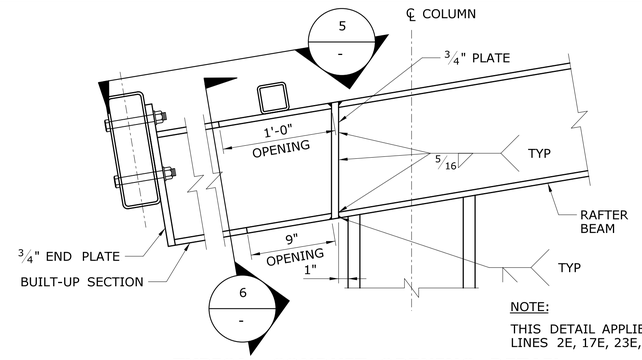
2 / - **SECTION**

SCALE: 1 1/2" = 1'-0"



3 / - **SECTION**

SCALE: 1 1/2" = 1'-0"

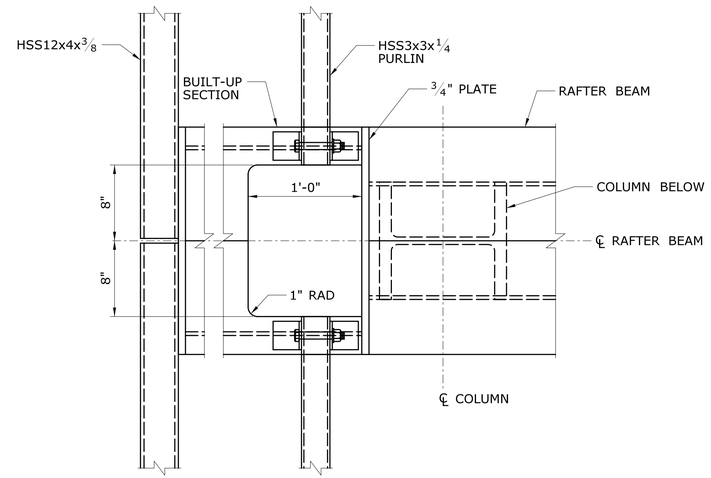


NOTE:

THIS DETAIL APPLIES AT COLUMN LINES 2E, 17E, 23E, 24W, & 28W.

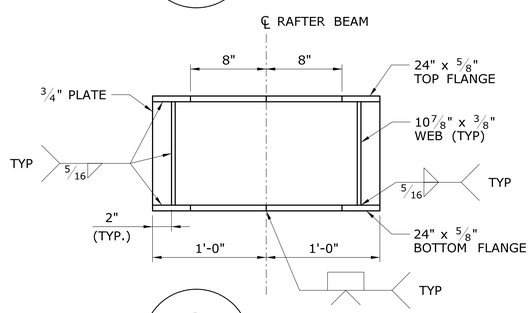
TYPICAL CONDUIT OPENING DETAIL

SCALE: 1 1/2" = 1'-0"



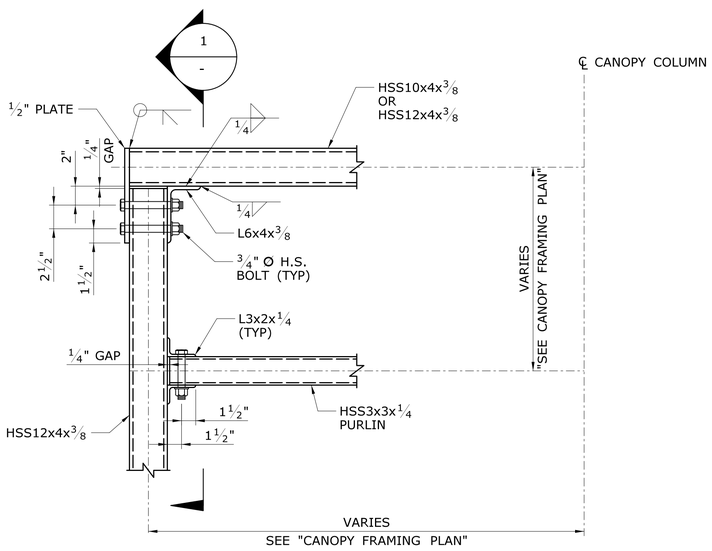
5 / - **SECTION**

SCALE: 1 1/2" = 1'-0"



6 / - **SECTION**

SCALE: 1 1/2" = 1'-0"



PLAN - TYPICAL CORNER DETAIL

SCALE: 1 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS_0170-2296..148...07..FST...304.dgn

SIGNATURE/ BLOCK:

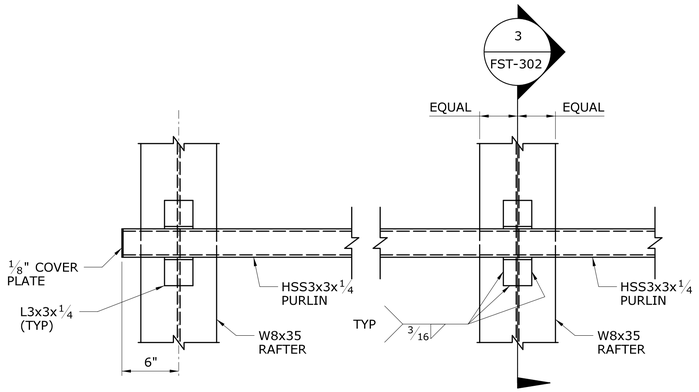
TransSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

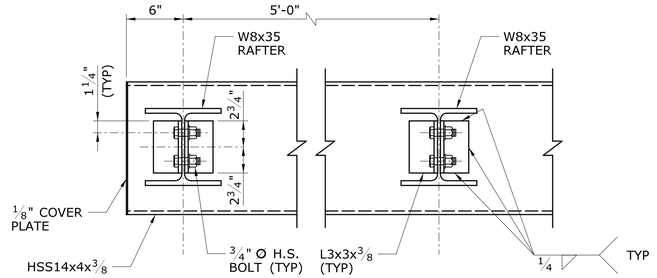
DRAWING TITLE: **CANOPY SECTIONS & DETAILS 5**

PROJECT NO. **170-3155**
DRAWING NO. **FST-304**
SHEET NO. **04.12.045**



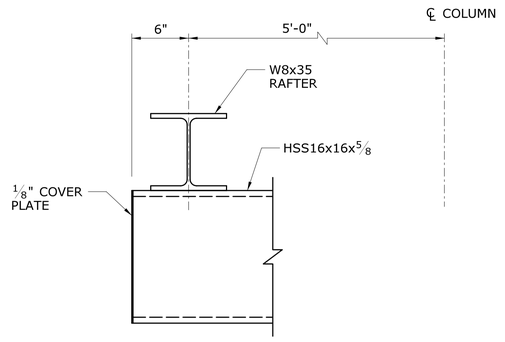
AT END AT COLUMN

1 / FST-301 SECTION
SCALE: 1 1/2" = 1'-0"

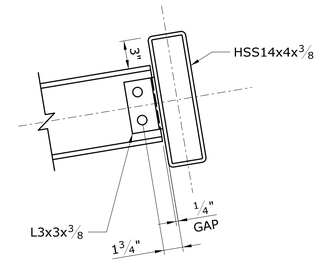


AT END AT COLUMN

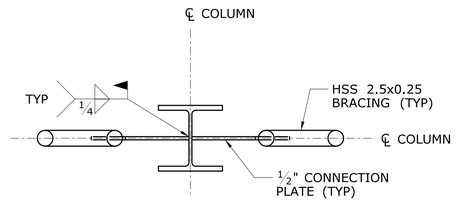
2 / FST-301 SECTION
SCALE: 1 1/2" = 1'-0"



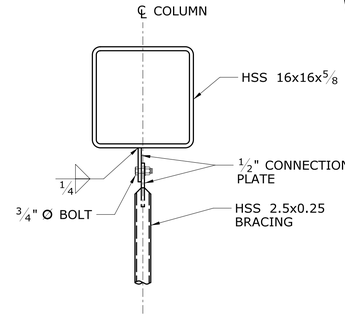
3 / FST-111 SECTION
SCALE: 1 1/2" = 1'-0"



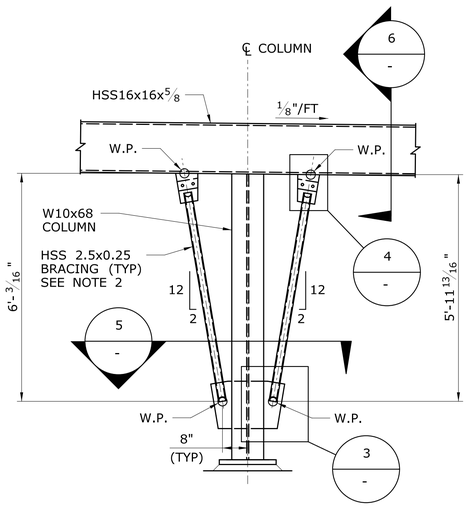
3 / FST-301 DETAIL
SCALE: 1 1/2" = 1'-0"



5 / - VIEW
SCALE: 1" = 1'-0"



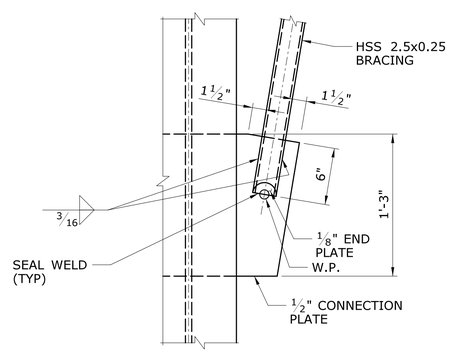
6 / - VIEW
SCALE: 1" = 1'-0"



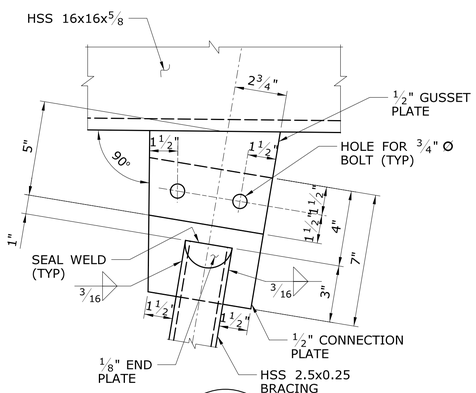
NOTES:

1. RAFTER BEAM & PURLIN NOT SHOWN FOR CLARITY.
2. PROVIDE BRACING ON BOTH SIDES AT COLUMN LINES 8.7, 11, & 12. PROVIDE BRACING ON THE OUTSIDE FACE ONLY AT COLUMN LINES 1 & 3. NO BRACING IS REQUIRED AT COLUMN LINE 2.

4 / FST-111 VIEW
SCALE: 1/2" = 1'-0"



3 / - DETAIL
SCALE: 1 1/2" = 1'-0"



4 / - DETAIL
SCALE: 3" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...305.dgn

SIGNATURE/ BLOCK:

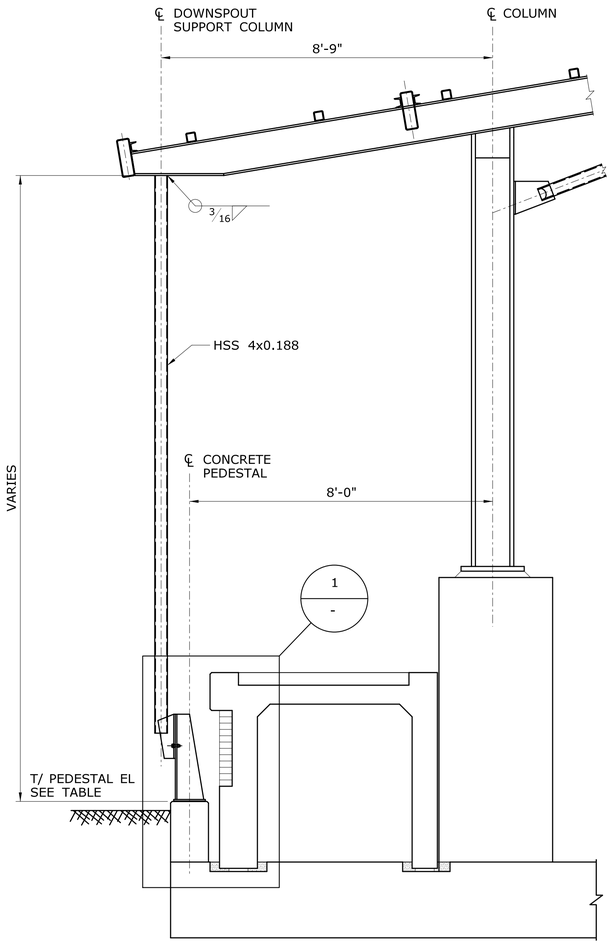
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: CANOPY SECTIONS & DETAILS 6

PROJECT NO. 170-3155
DRAWING NO. FST-305
SHEET NO. 04.12.046



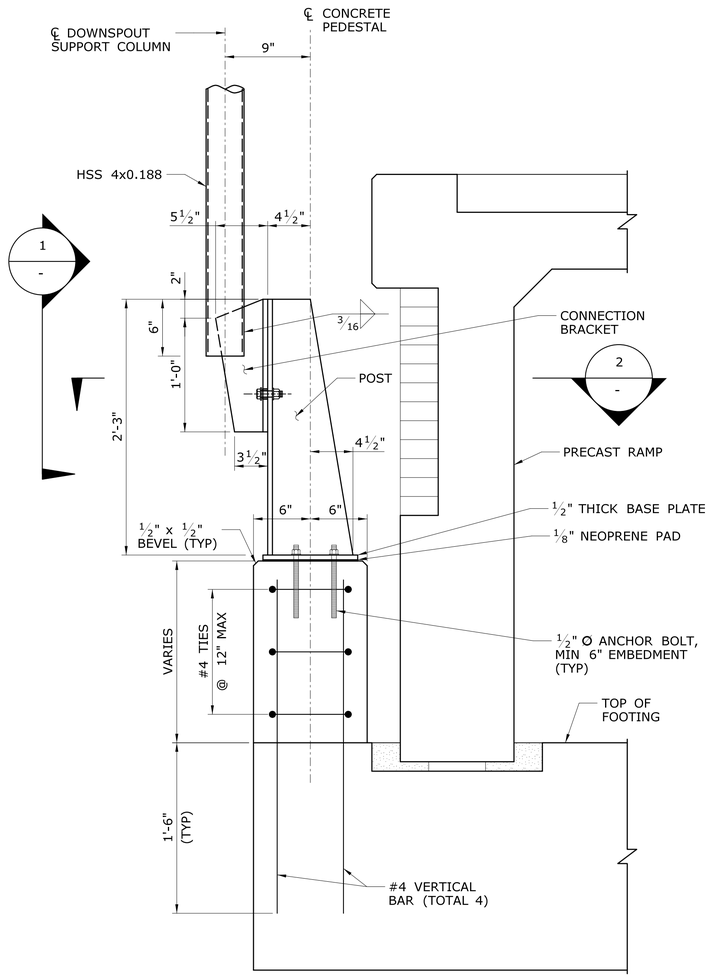
DOWNSPOUT SUPPORT COLUMN ELEVATION

SCALE: 1/2" = 1'-0"

NOTE:

DOWNSPOUT SUPPORT COLUMN AT RAMP LOCATION SHOWN. OTHER LOCATIONS ARE SIMILAR.

ELEVATION TABLE			
COLUMN LINE	T/ PEDESTAL ELEVATION (FT)	COLUMN LINE	T/ PEDESTAL ELEVATION (FT)
2E	77.70	22W	73.50
14E	74.50	30W	73.80
16E	74.70	32W	73.80
		34W	73.80

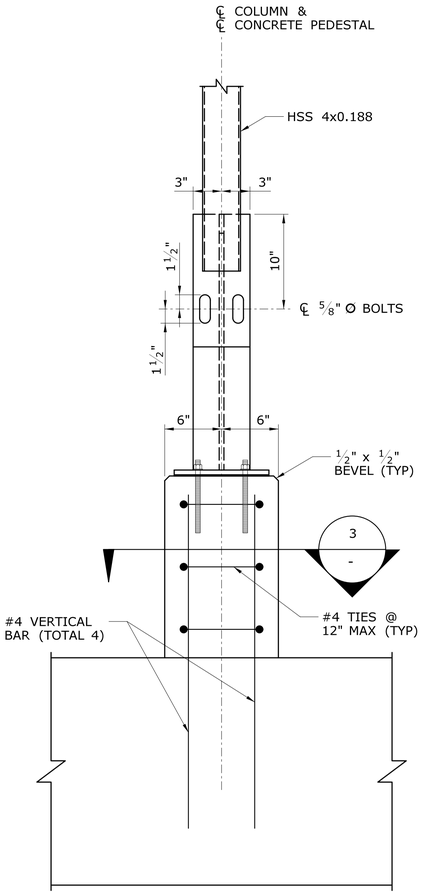


NOTE:

FOOTING REINFORCEMENT NOT SHOWN FOR CLARITY.

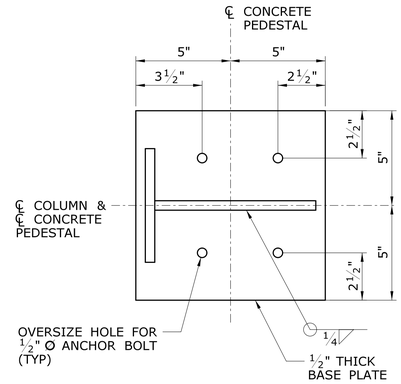
1 / - **DETAIL** SCALE: 1 1/2" = 1'-0"

2 / - **DETAIL** SCALE: 6" = 1'-0"



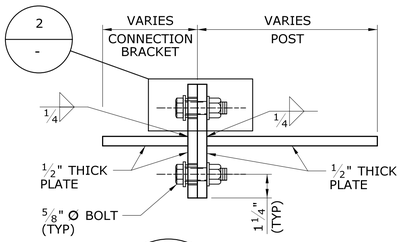
1 / - **VIEW** SCALE: 1 1/2" = 1'-0"

3 / - **SECTION** SCALE: 1 1/2" = 1'-0"



BASE PLATE DETAIL

SCALE: 3" = 1'-0"



2 / - **SECTION** SCALE: 3" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...306.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DONALD K. STANLEY No. 12772 LICENSED PROFESSIONAL ENGINEER

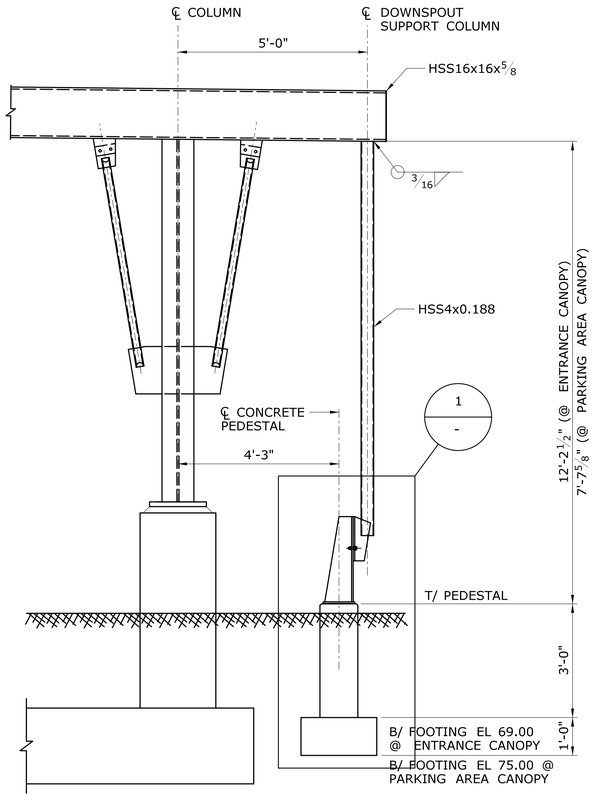
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

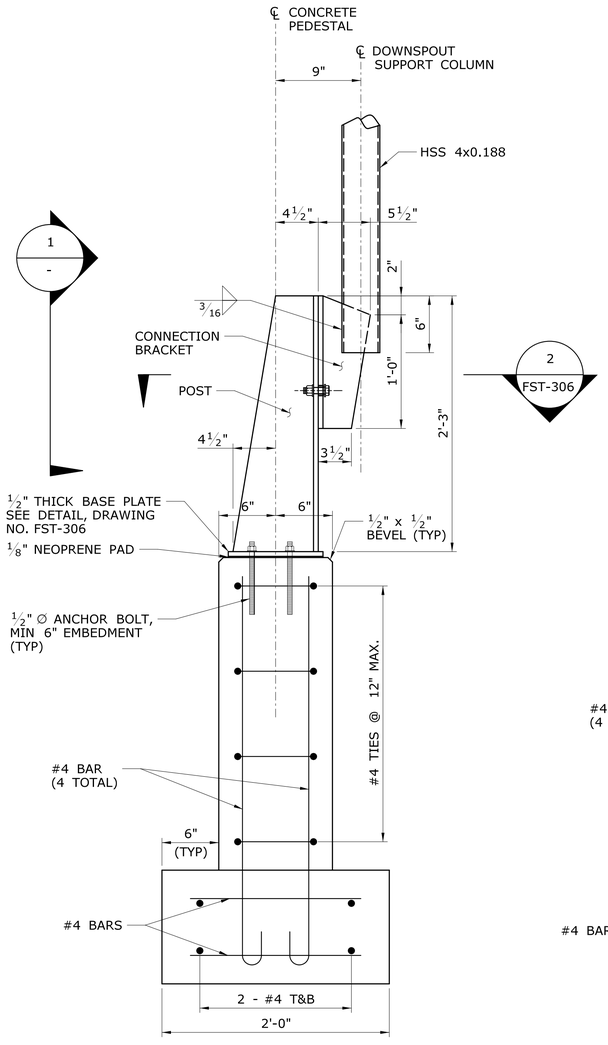
DRAWING TITLE:
CANOPY SECTIONS & DETAILS 7

PROJECT NO. 170-3155
DRAWING NO. FST-306
SHEET NO. 04.12.047



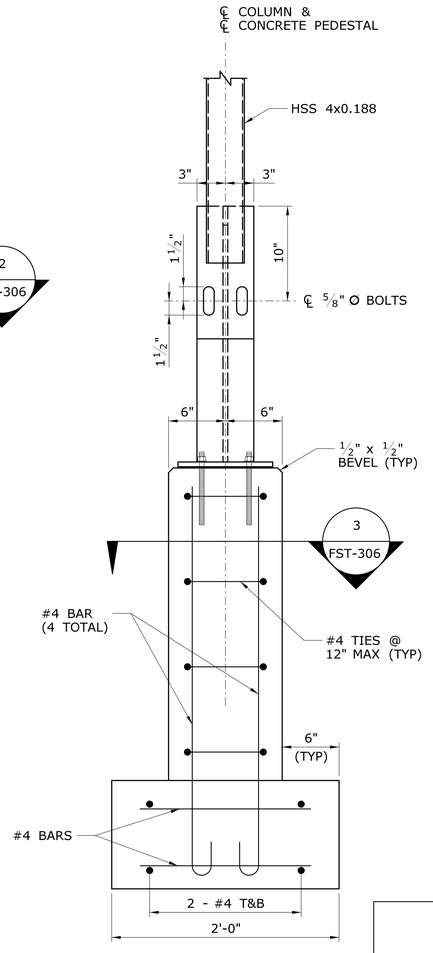
DOWNSPOUT SUPPORT COLUMN ELEVATION (WITH INDEPENDENT FOUNDATION)

SCALE: 1 1/2" = 1'-0"



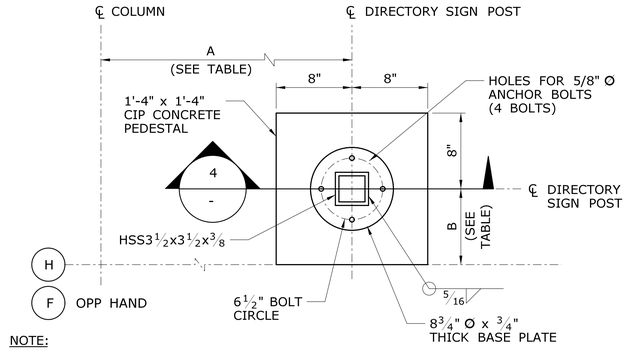
DETAIL

1 / - SCALE: 1 1/2" = 1'-0"



VIEW

1 / - SCALE: 1 1/2" = 1'-0"



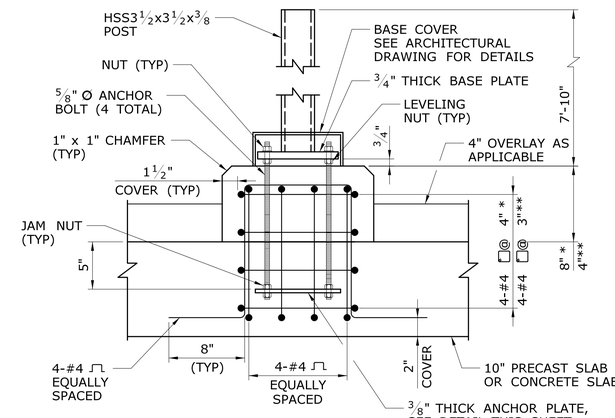
NOTE:

THE CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF A11 DIRECTORY SIGN PEDESTALS PRIOR TO FABRICATION OF PRECAST PLATFORM PANELS.

PLAN

DIRECTORY SIGN SUPPORT DETAIL

SCALE: 1 1/2" = 1'-0"



NOTE:

* WHEN OVERLAY PRESENT
** WITHOUT OVERLAY

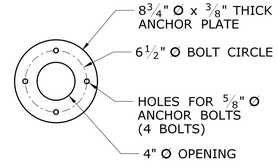
SECTION

4 / - SCALE: 1 1/2" = 1'-0"

DIRECTORY SIGN PEDESTAL LOCATION TABLE

COLUMN LINE	DISTANCE "A"	DISTANCE "B"
24E	6'-2"	2'-3" *
24E	13'-10"	2'-3" *
24W	6'-2"	2'-3" *
24W	13'-10"	2'-3" *
26W	6'-2"	2'-3" *
26W	13'-10"	2'-3" *
40W	6'-2"	8"
40W	13'-10"	8"
41W	6'-2"	8"
41W	13'-10"	8"

NOTE: * INDICATES SIGN SUPPORT IS OFFSET AWAY FROM THE TRACKS.



ANCHOR PLATE DETAIL

SCALE: 1 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...307.dgn

SIGNATURE/ BLOCK:

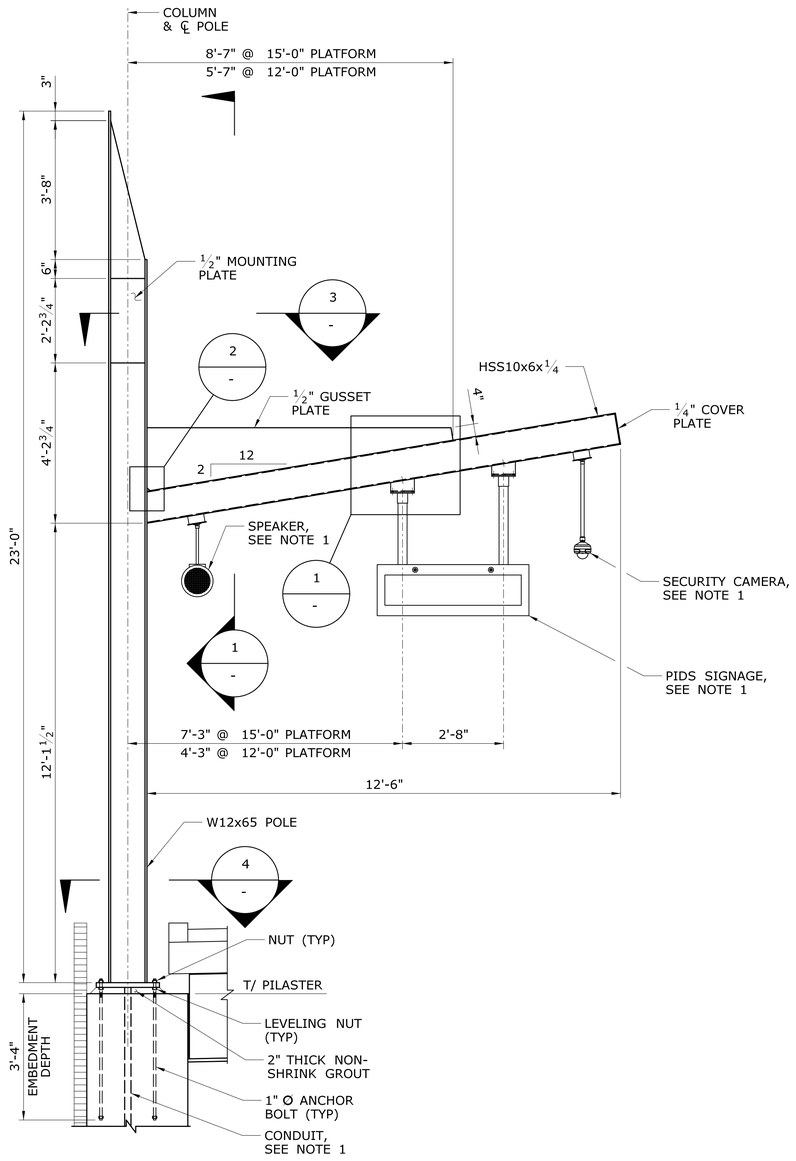
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE:
CANOPY SECTIONS & DETAILS 8

PROJECT NO. 170-3155
DRAWING NO. FST-307
SHEET NO. 04.12.048

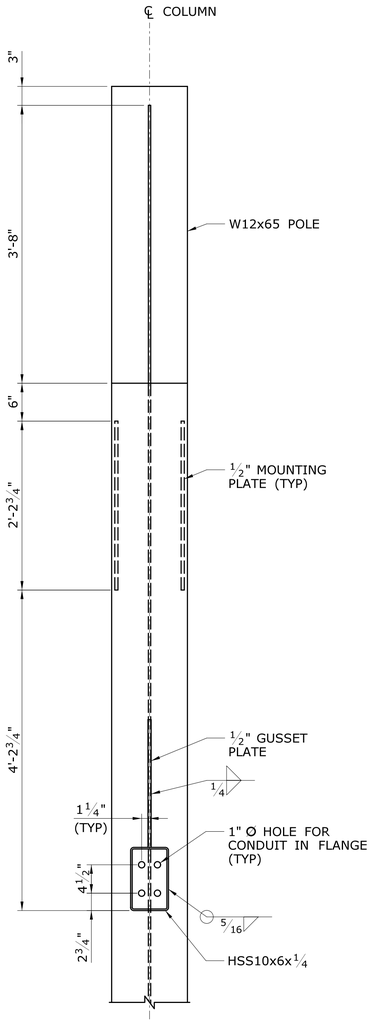


NOTE:

1. SEE ELECTRICAL AND ARCHITECTURE DRAWINGS FOR ADDITIONAL DIMENSIONS AND CONNECTION DETAILS.

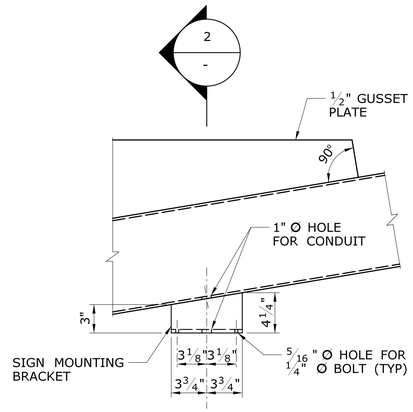
PLATFORM STEEL POLE ELEVATION

SCALE: ½" = 1'-0"



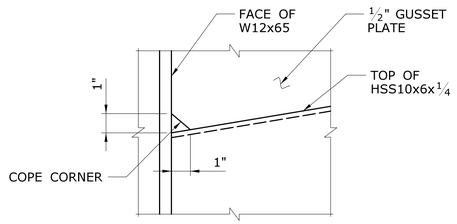
1 - SECTION

SCALE: 1" = 1'-0"



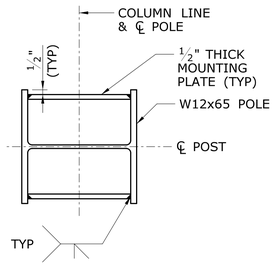
1 - DETAIL

SCALE: 1½" = 1'-0"



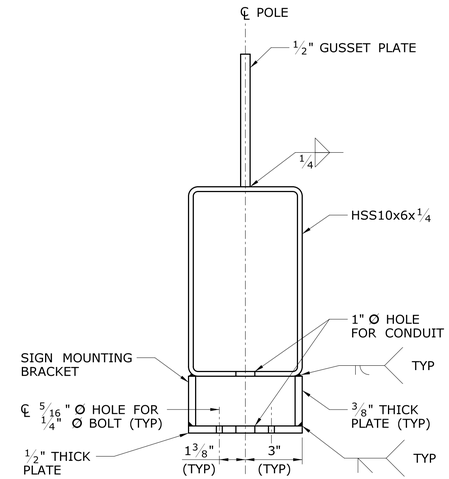
2 - DETAIL

SCALE: 3" = 1'-0"



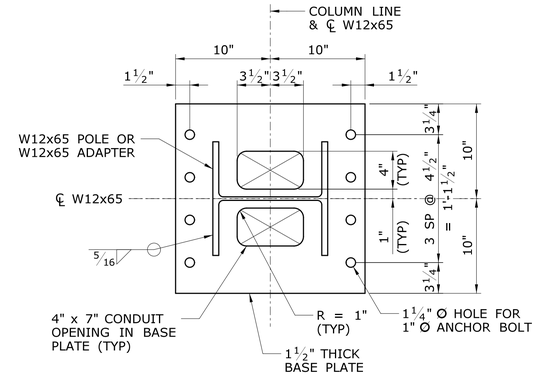
3 - SECTION

SCALE: 1½" = 1'-0"



2 - SECTION

SCALE: 3" = 1'-0"



4 - SECTION

SCALE: 1½" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...308.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT — DONALD K. STAPLES — No. 12778 — LICENSED PROFESSIONAL ENGINEER

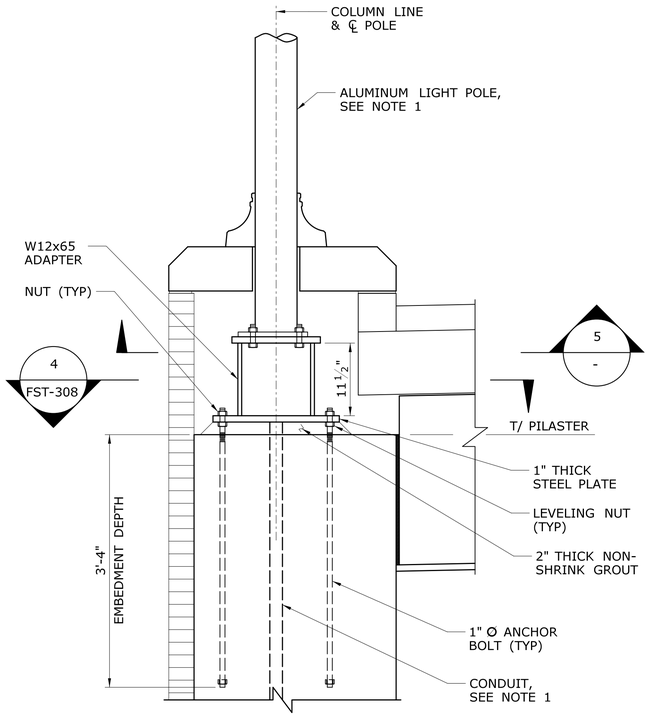
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE:
PLATFORM MISC. STEEL DETAILS 1

PROJECT NO. 170-3155
DRAWING NO. FST-308
SHEET NO. 04.12.049

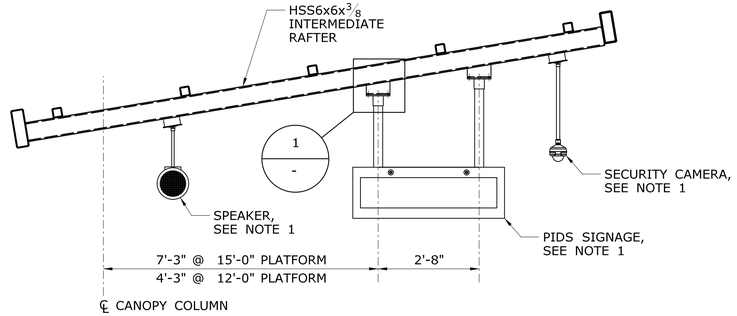


NOTE:

1. SEE ELECTRICAL AND ARCHITECTURE DRAWINGS FOR ADDITIONAL DIMENSIONS AND CONNECTION DETAILS.

ALUMINUM LIGHT POLE ADAPTER ELEVATION

SCALE: 1" = 1'-0"

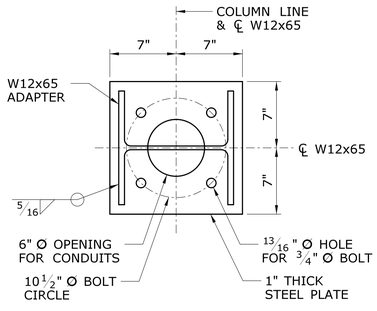


NOTE:

1. SEE ELECTRICAL AND ARCHITECTURE DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILS.

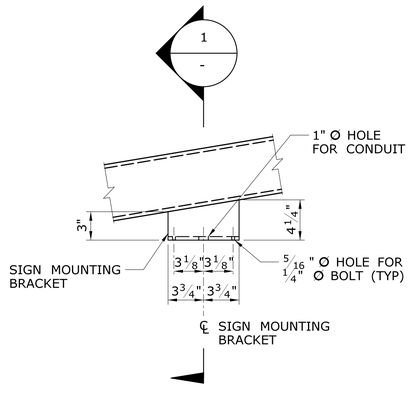
TYPICAL ELECTRICAL DETAIL AT INTERMEDIATE RAFTER

SCALE: ½" = 1'-0"



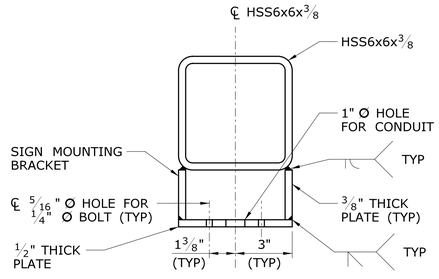
5 / - **SECTION**

SCALE: 1½" = 1'-0"



1 / - **DETAIL**

SCALE: 1½" = 1'-0"



1 / - **SECTION**

SCALE: 3" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_309.dgn

SIGNATURE/ BLOCK:

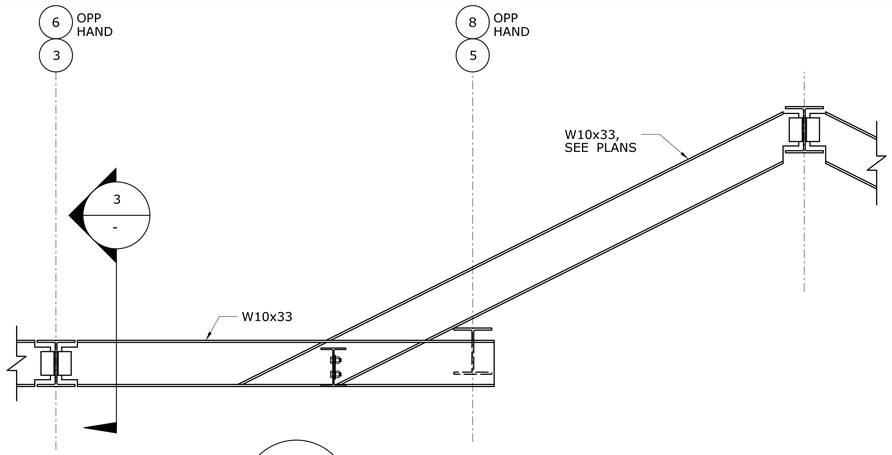
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

TOWN: WALLINGFORD

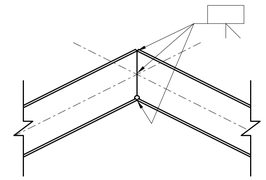
DRAWING TITLE:
PLATFORM MISC.
STEEL DETAILS 2

PROJECT NO. 170-3155
DRAWING NO. FST-309
SHEET NO. 04.12.050



2 / FST-114 **SECITON**

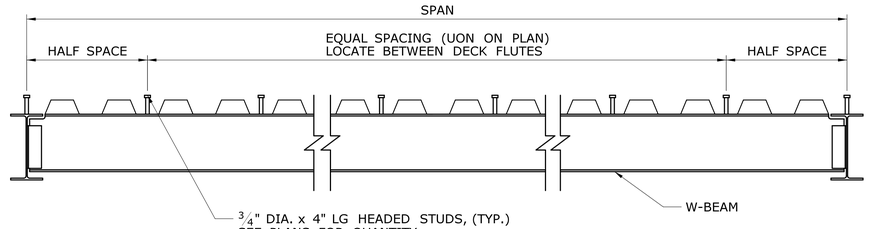
SCALE: 3/4" = 1'-0"



NOTE:
DETAIL SIMILAR FOR ALL SLOPED ROOF MEMBERS.
W10x33 NOT SHOWN FOR CLARITY.

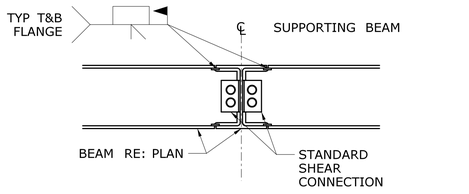
3 / - **SECTION**

SCALE: 3/4" = 1'-0"

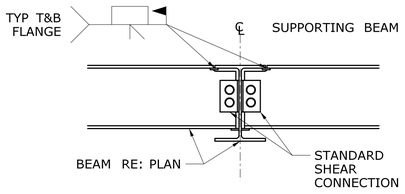


TYPICAL COMPOSITE BEAM DETAIL

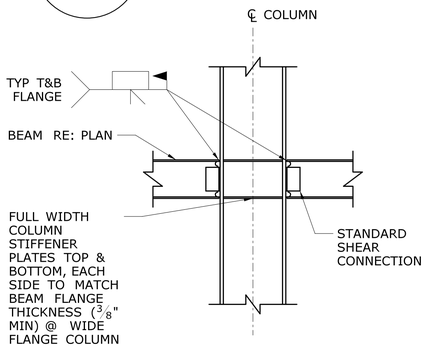
SCALE: NTS



MOMENT CONNECTION THRU BEAM (BEAMS EQUAL DEPTH)
(NOTED AS ◄|► ON PLANS)



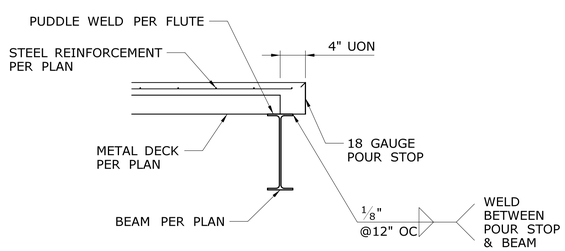
MOMENT CONNECTION THRU BEAM (BEAMS UNEQUAL DEPTH)
(NOTED AS ◄|► ON PLANS)



MOMENT CONNECTION THRU BEAM (BEAMS UNEQUAL DEPTH)
(NOTED AS ◄|► ON PLANS)

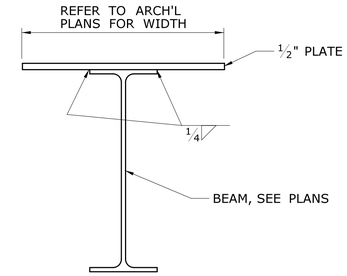
TYPICAL MOMENT CONNECTIONS

SCALE: NTS



TYPICAL EDGE OF SLAB DETAIL

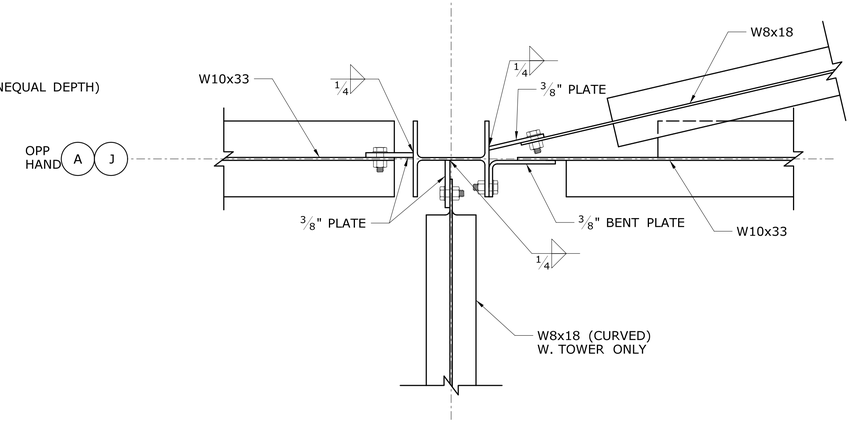
SCALE: NTS



Note: plate may be placed on bottom flange depending on Arch'l requirements.

BEAM SUPPORTING MASONRY

SCALE: NTS



4 / FST-114 **DETAIL**

SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **J POPOLI**
CHECKED BY: **H BUI**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS_0170-2296..148_..07..FST_..400.dgn

SIGNATURE/ BLOCK:

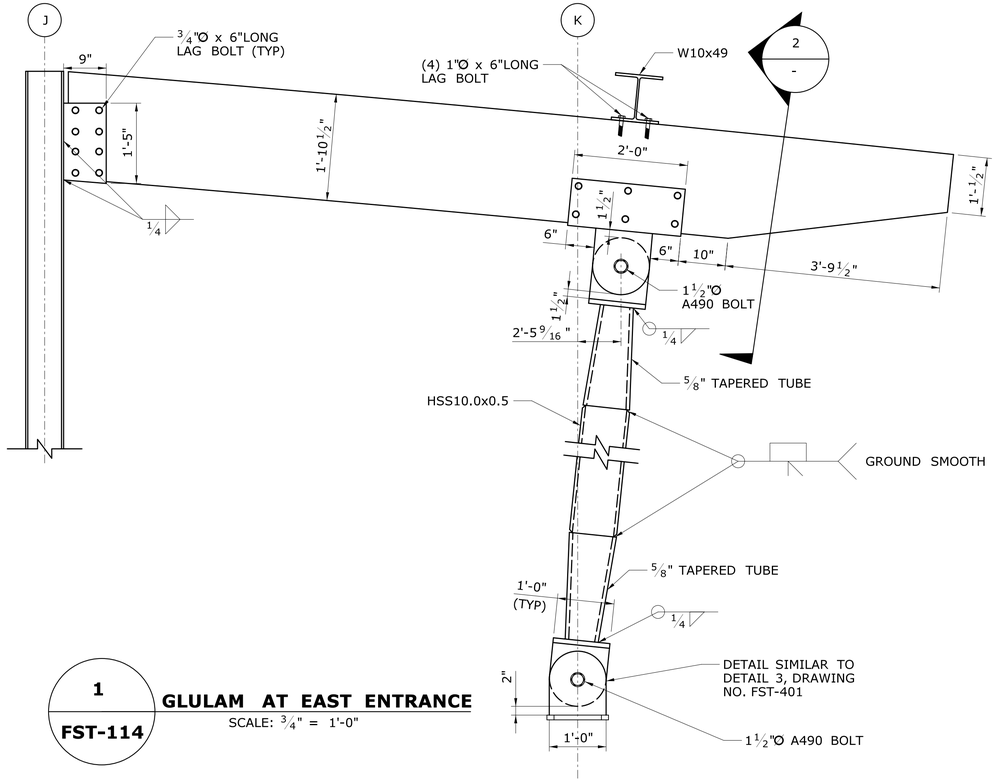
TrainSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

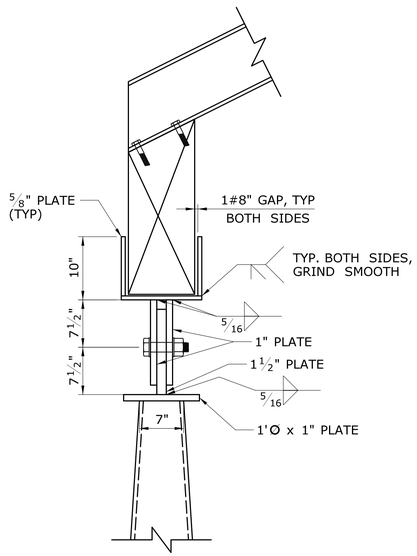
TOWN: **WALLINGFORD**

DRAWING TITLE:
TOWER SUPERSTRUCTURE SECTIONS & DETAILS 1

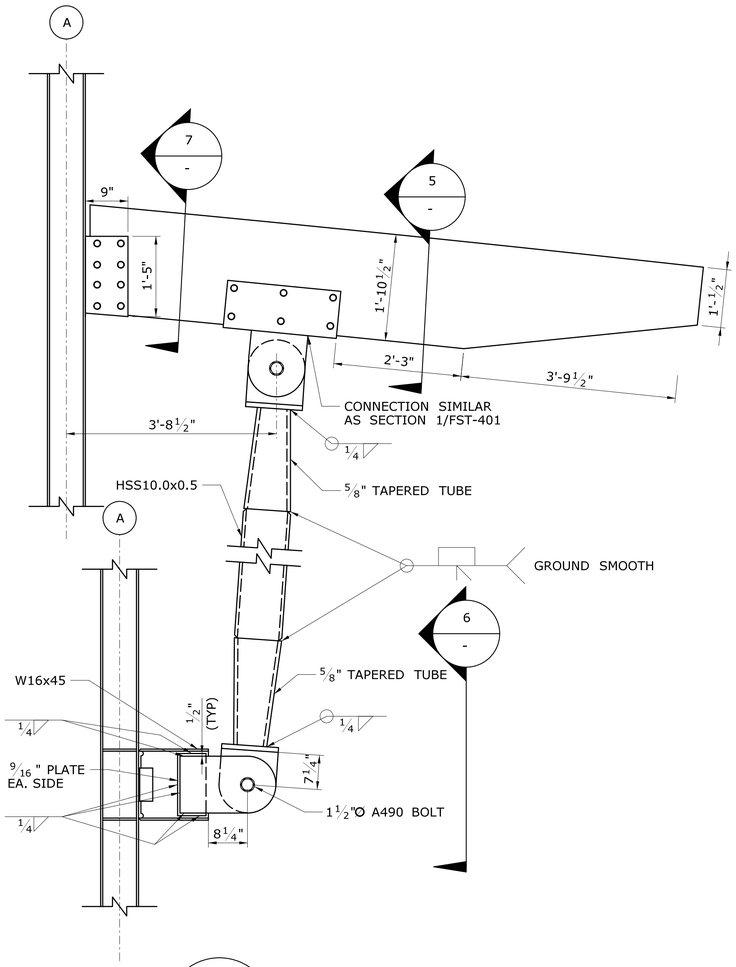
PROJECT NO. **170-3155**
DRAWING NO. **FST-400**
SHEET NO. **04.12.051**



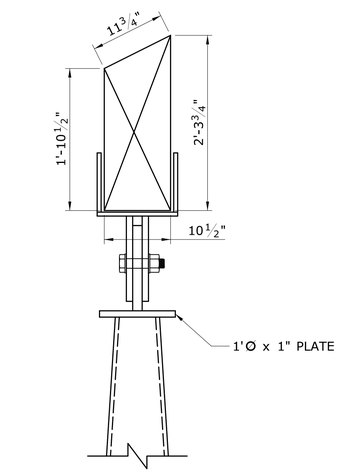
1 / FST-114 — GLULAM AT EAST ENTRANCE
SCALE: 3/4" = 1'-0"



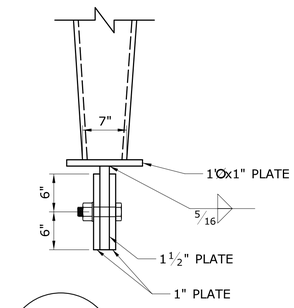
2 / - SECTION
SCALE: 1" = 1'-0"



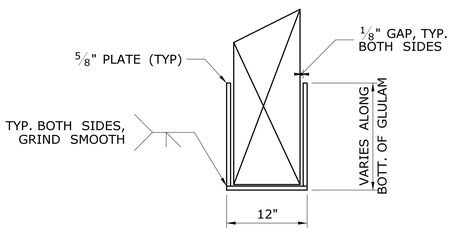
3 / FST-114 — GLULAM AT WEST ENTRANCE
SCALE: 3/4" = 1'-0"



5 / - SECTION
SCALE: 1" = 1'-0"



6 / - SECTION
SCALE: 1" = 1'-0"



7 / - SECTION
SCALE: 1" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..._07..FST..._401.dgn

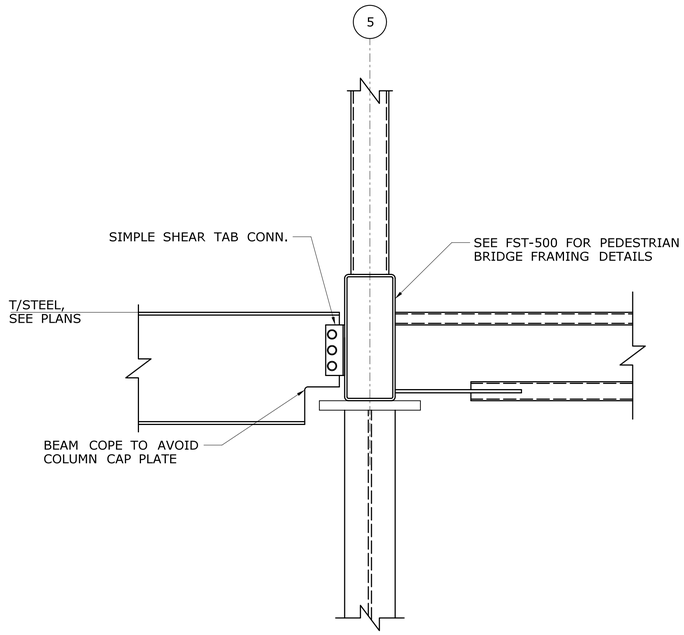
SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

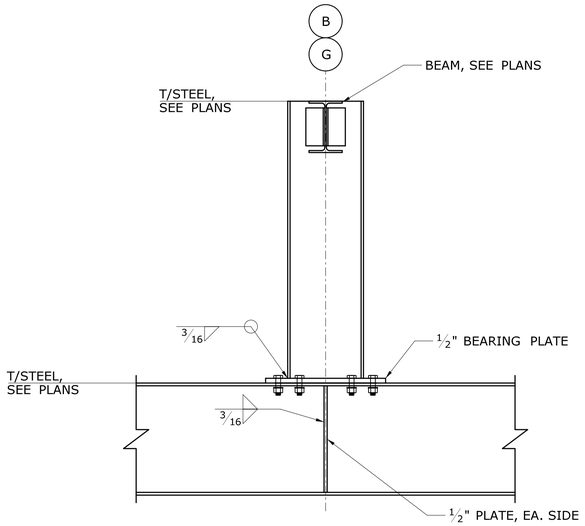
PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD
DRAWING TITLE: TOWER SUPERSTRUCTURE SECTIONS & DETAILS 2

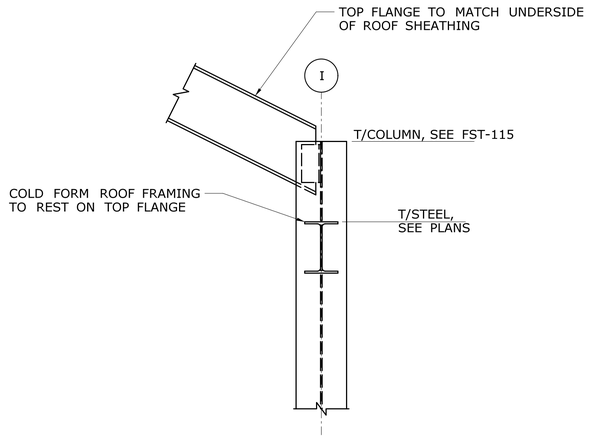
PROJECT NO. 170-3155
DRAWING NO. FST-401
SHEET NO. 04.12.052



3 / **FST-113** — **STEEL FRAMING INTO PEDESTRIAN BRIDGE**
SCALE: 3/4" = 1'-0"



4 / **FST-113** — **SECTION**
SCALE: 1" = 1'-0"



4 / **FST-114** — **SECTION**
SCALE: 1" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **J POPOLI**
CHECKED BY: **H BUI**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...402.dgn

SIGNATURE/ BLOCK:

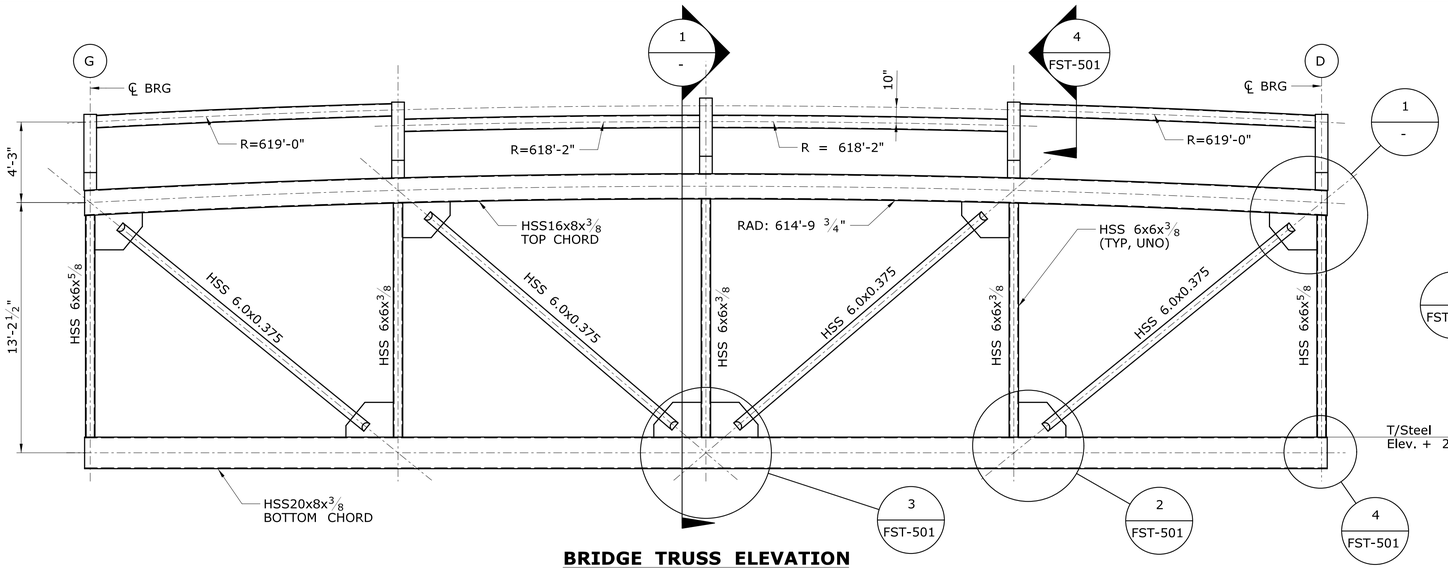
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

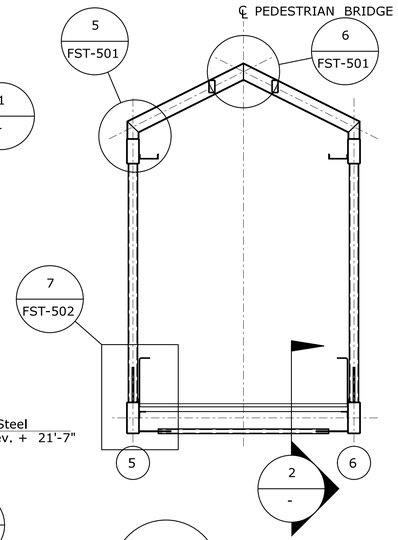
DRAWING TITLE: **TOWER SUPERSTRUCTURE SECTIONS & DETAILS 3**

PROJECT NO. **170-3155**
DRAWING NO. **FST-402**
SHEET NO. **04.12.053**



BRIDGE TRUSS ELEVATION

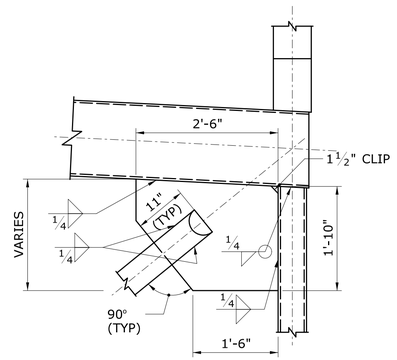
SCALE: 1/4" = 1'-0"



SECTION

1 / -

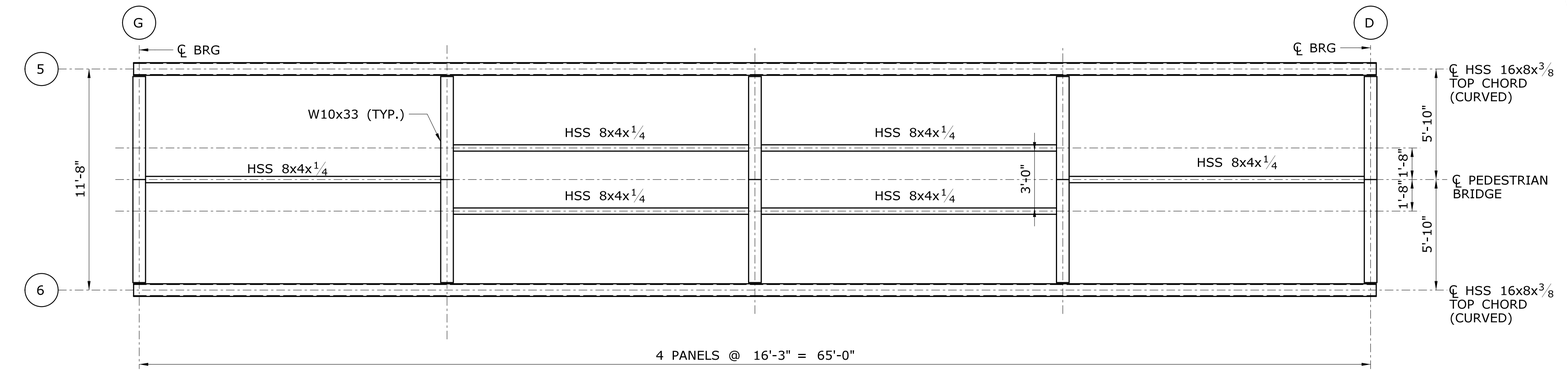
SCALE: 1/4" = 1'-0"



DETAIL

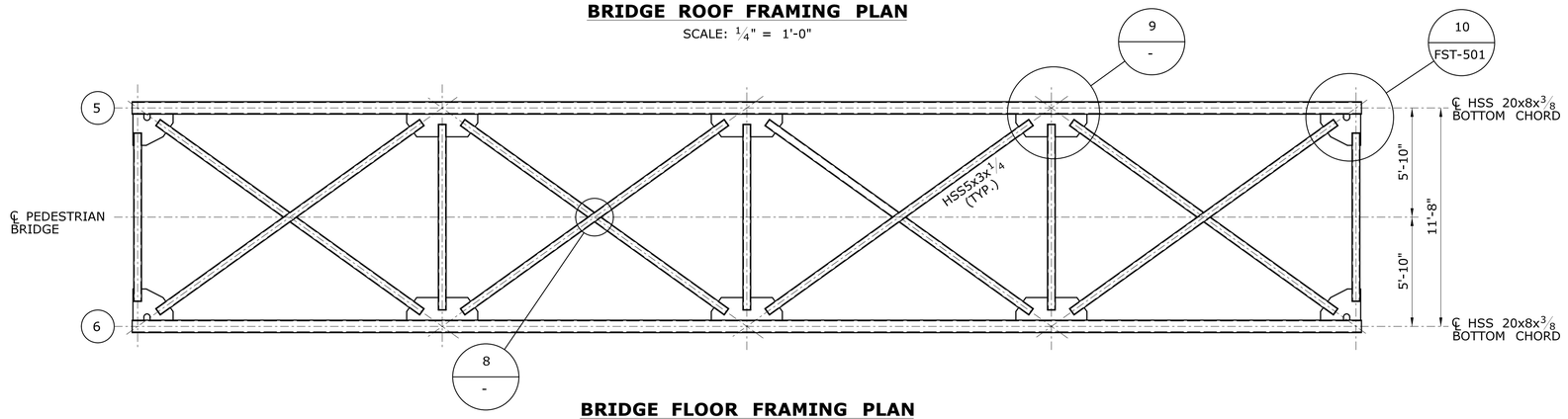
1 / -

SCALE: 3/4" = 1'-0"



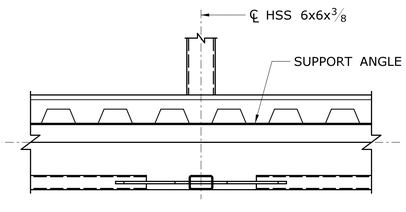
BRIDGE ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



BRIDGE FLOOR FRAMING PLAN

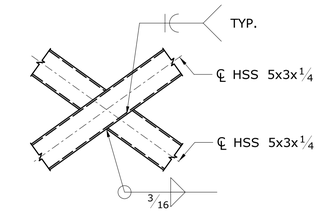
SCALE: 1/4" = 1'-0"



SECTION

2 / -

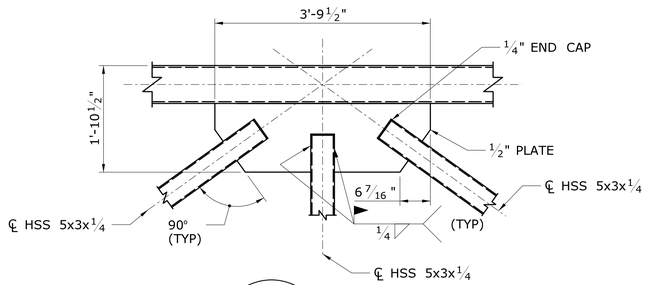
SCALE: 3/4" = 1'-0"



DETAIL

8 / -

SCALE: 1" = 1'-0"



DETAIL

9 / -

SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: J POPOLI

CHECKED BY: H BUI

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_..07_FST_..500.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

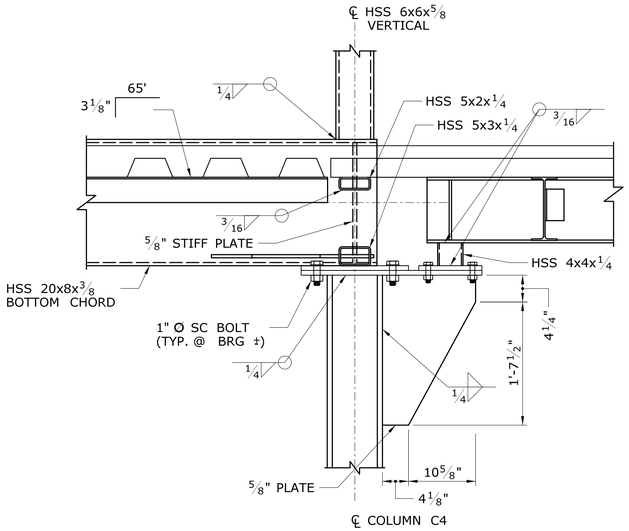
TOWN: WALLINGFORD

DRAWING TITLE:
PEDESTRIAN BRIDGE
FRAMING DETAILS 1

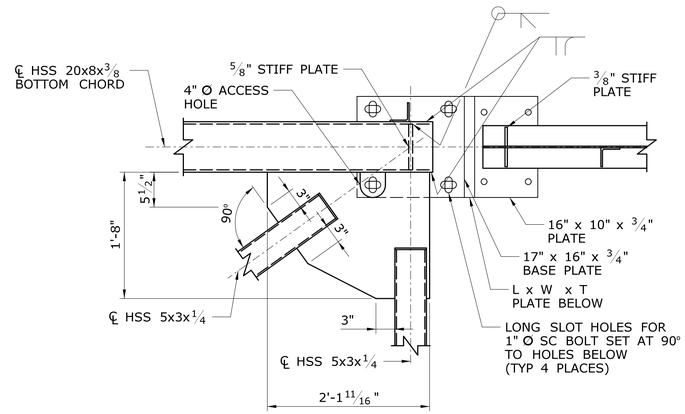
PROJECT NO. 170-3155

DRAWING NO. FST-500

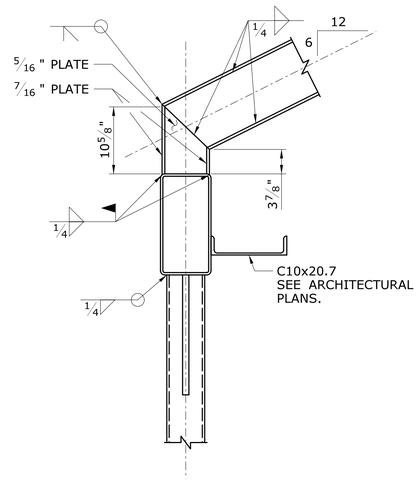
SHEET NO. 04.12.054



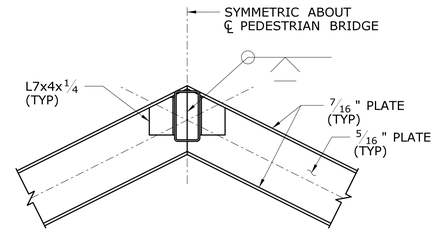
4 / FST-500 — **DETAIL**
SCALE: 1" = 1'-0"



10 / FST-500 — **DETAIL**
SCALE: 1" = 1'-0"



5 / FST-500 — **DETAIL**
SCALE: 1" = 1'-0"



4 / FST-500 — **SECTION**
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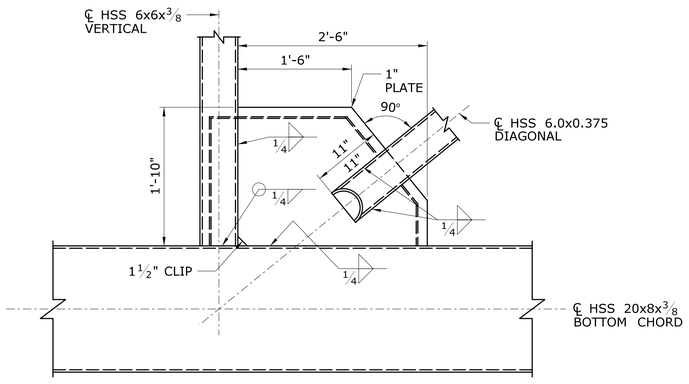

3 / FST-500 — **DETAIL**
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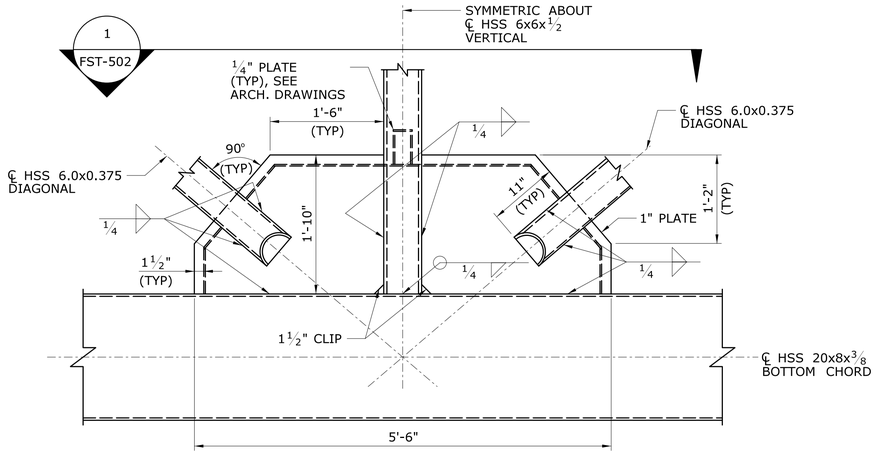

2 / FST-500 — **DETAIL**
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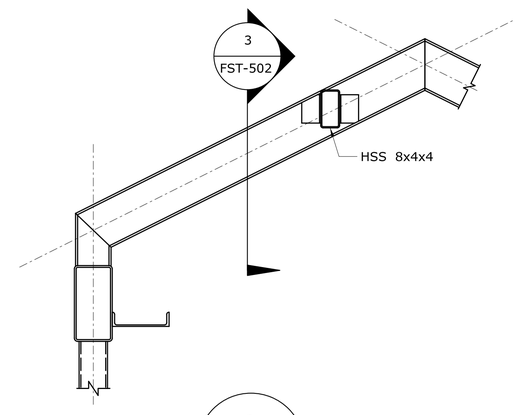

6 / FST-500 — **DETAIL**
SCALE: 1" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **J POPOLI**
CHECKED BY: **H BUI**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_501.dgn

SIGNATURE/ BLOCK:

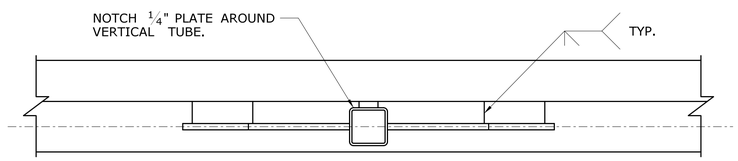
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

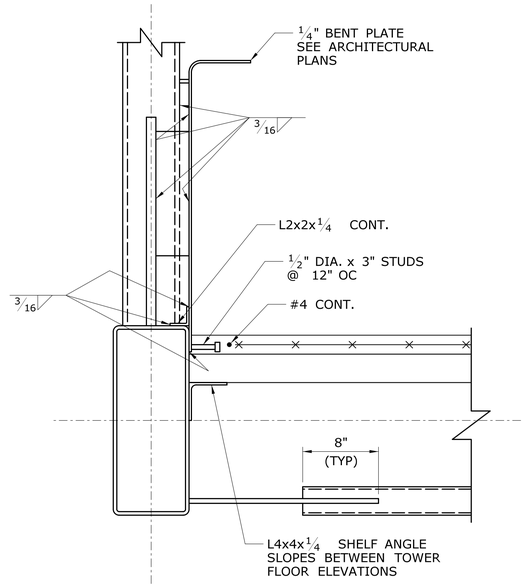
TOWN: **WALLINGFORD**

DRAWING TITLE:
PEDESTRIAN BRIDGE FRAMING DETAILS 2

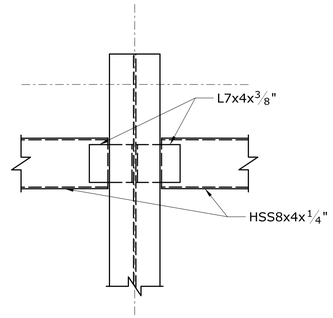
PROJECT NO. **170-3155**
DRAWING NO. **FST-501**
SHEET NO. **04.12.055**



1 / FST-501 **SECTION**
SCALE: 1" = 1'-0"



7 / FST-500 **DETAIL**
SCALE: 1 1/2" = 1'-0"



3 / FST-501 **SECTION**
SCALE: 1" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND STRUCTURAL NOTES, SEE DRAWING NOS. FST-001 TO FST-003.
2. COORDINATE ALL DIMENSIONS AND DETAILS WITH THE ARCHITECTURAL DRAWINGS.
3. FOR PLATFORM PLANS, SEE DRAWING NOS FST-103 TO FST-105.
4. FOR TOWER ROOF FRAMING PLANS, SEE DRAWING NOS. FST-112 TO FST-113.
5. FLOOR DECK IS TO BE INSTALLED OFF SITE AND TO RECEIVE METALIZED FINISH ALONE WITH THE BRIDGE STRUCTURE PRIOR TO DELIVERY. COORDINATE WITH ARCHITECTURAL PLANS AND SPECS FOR FINISHES.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **J POPOLI**
CHECKED BY: **H BUI**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_148_07_FST_502.dgn

SIGNATURE/ BLOCK:

TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

DRAWING TITLE:
PEDESTRIAN BRIDGE FRAMING DETAILS 3

PROJECT NO. **170-3155**
DRAWING NO. **FST-502**
SHEET NO. **04.12.056**

ERECTION SEQUENCE - OVERALL GENERAL NOTES:

1. THE SUGGESTED STEPS ILLUSTRATE A SEQUENCE OF STEEL ERECTION ATTEMPTING TO CONFORM TO RAILROAD REGULATIONS, TO MINIMIZE DISRUPTIONS TO THE RAIL SERVICE AND SITE CONSTRAINTS. THE SEQUENCE MAY BE ALTERED SO LONG AS THE OPERATION OF THE RAILROAD IS MAINTAINED IN CONFORMANCE WITH THE SPECIFICATIONS, AND SUBJECT TO APPROVAL BY THE DESIGN PROFESSIONALS, THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CONNDOT) AND AMTRAK.

2. EQUIPMENT SHOWN IS PRESENTED TO DEMONSTRATE REQUIRED CLEARANCES AND POSSIBLE LOCATIONS OF EQUIPMENT WITH RELATIONSHIP TO CONSTRUCTION ACTIVITIES. IN NO WAY SHOULD IT BE CONSTRUED TO BEING A FINAL AND ONLY WAY FOR CONSTRUCTION. DIFFERENT AND/OR SMALLER PIECES OF EQUIPMENT CAN BE UTILIZED AT THE CONTRACTOR'S DETERMINATION AS LONG AS AMTRAK AND CONNDOT REQUIREMENTS, ALONG WITH ALL APPLICABLE CODES AND REGULATIONS, ARE SATISFIED.

3. THE WORK AND STAGING INFORMATION LISTED IS NOT INTENDED TO COVER ALL DETAILS OF THE CONSTRUCTION. THE CONTRACTOR MUST PREPARE A DETAILED CONSTRUCTION SEQUENCE PLAN(S) AND SCHEDULE(S) FOR REVIEW AND WITH WRITTEN APPROVAL PRIOR TO BEGINNING ANY WORK.

4. GIVEN THE NATURE OF THIS CONSTRUCTION WITH WORK PARALLELING THE RAIL LINES, THE CONTRACTOR IS TO HAVE ON SITE AT ALL TIMES EQUIPMENT CAPABLE OF REMOVING FAILED MACHINES OR DEBRIS FROM THE RAILS IF A BREAKDOWN WERE TO OCCUR.

5. CONTRACTOR IS TO HAVE ALL EROSION AND SEDIMENTATION CONTROLS AND PROTECTIONS IN PLACE PRIOR TO BEGINNING ANY WORK.

6. FOR EXPECTED TRACK RESTRICTIONS, SEE "NOTICE TO CONTRACTOR - WORK ON RAILROAD PROPERTY " INCLUDED IN THE PROJECT SPECIFICATIONS.

7. ALL WORK THAT FALLS WITHIN 15 FEET OF THE RAIL CENTERLINE WILL REQUIRE A TRACK CLOSURE.

8. REFER TO AMTRAK SPECIFICATION 01142A FOR CRANE/HOISTING OPERATIONS OVER THE RAILROAD RIGHT-OF-WAY.

9. CRANE SHOWN IS FOR PLANNING PURPOSES ONLY, CONTRACTOR SHALL SUBMIT CRANE PLACEMENT AND ERECTION PLANS TO THE ENGINEER AND AMTRAK RAILROAD FOR REVIEW. THE PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN CONNECTICUT AND SHALL DEPICT THE ENTIRE LIFTING AND SETTING PROCEDURE INCLUDING:

   A. CRANE LOCATION(S)
   B. RIGGING
   C. SEQUENCE
   D. CRANE CHARTS
   E. STAGING LOCATION OF BRIDGE AT PICK POINT
   F. TAGLINE HANDLING

10. A MULTIPLE-TRACK NIGHT TIME CLOSURE IS REQUIRED DURING LIFTING AND PLACING OPERATIONS. CONTRACTOR TO COORDINATE WITH AMTRAK THE AVAILABLE DAY AND TIME.

11. PRIOR TO THE PREPARATION OF CRANE PLACEMENT AND ERECTION PLANS, THE CONTRACTOR SHALL FIELD VERIFY COMMUNICATION WIRES AND OTHER CONDITIONS SHOWN ON PLANS.

12. CRANE TO BE MOUNTED LEVEL ON EXTENDED OUTRIGGERS IN FULL CONTACT WITH GROUND SURFACE. COMPACTED CRUSHED STONE OR SAND MAY BE USED TO FILL ANY LOW AREAS FOR LEVELNESS.

13. ROAD PLATES UNDER CRANE OUTRIGGERS TO BE GRADE A36 STEEL OR BETTER.

14. CRANE POSITIONS MAY BE ADJUSTED TO SUITE FIELD CONDITIONS AS LONG AS MAXIMUM RADIUS VS. LOAD IS NOT EXCEEDED.

15. MAXIMUM WIND SPEED AT TIME OF CRANE OPERATION SHALL NOT EXCEED 10 MPH.

16. A TABLE OR CHART PREPARED BY THE CRANE MANUFACTURER TO DESCRIBE THE MAXIMUM LIFT AT ALL CONDITIONS OF LOADING SHALL BE POSTED IN CRANE CAB IN CLEAR VIEW OF OPERATOR.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE WEIGHT OF THE LIFT AND FOR INSURING THE STABILITY OF EACH MEMBER DURING ALL PHASES ERECTION.

18. ANCHOR BOLTS FOR TOWER STRUCTURE AND BRIDGE STRUCTURE TO BE INSTALLED AND FASTENED BEFORE THE CRANE SUPPORT CABLES ARE RELEASED.

19. ALL RIGGING SLINGS AND COMPONENTS TO HAVE A FACTOR OF SAFETY OF 5.

20. CRANE CAPACITY AT THE MAXIMUM OPERATING RADIUS SHALL BE 150% GREATER THAN THE LOAD.

21. ALL PERSONNEL SHALL BE AMTRAK SAFETY TRAINED PER THE CONTRACT SPECIFICATIONS.

22. AFTER THE PEDESTRIAN BRIDGE IS SET, THE CONTRACTOR SHALL COORDINATE THE INSTALLATIONS OF BRIDGE FINISHES (GLAZING, ROOFING, TOUCH-UP PAINTING) WITH AMTRAK TO OBTAIN THE NECESSARY TRACK CLOSURES.

23. TEMPORARY FALL PROTECTION SHOULD BE INSTALLED ON THE BRIDGE AS REQUIRED UNTIL THE FINAL BRIDGE FINISHES ARE COMPLETE.

24. COORDINATE THE NECESSARY GROUNDING OF CRANE EQUIPMENT WITH THE ENGINEER AND AMTRAK R.R.

ERECTION SEQUENCE - SUGGESTED DESIGN PROCEDURE:

1. CONSTRUCT NEW PLATFORM FOUNDATION, ELEVATED PLATFORM STRUCTURE AND CANOPIES.

2. CONSTRUCT PLATFORM IN ACCORDANCE TO STAGING PLANS.

3. UTILIZE SMALLER EQUIPMENT TO ACCESS FROM THE REAR OF THE CONSTRUCTION ACTIVITY TO MINIMIZE DISRUPTION TO RAIL SERVICE.

STAIR AND ELEVATOR TOWER CONSTRUCTION

1. CONSTRUCT ELEVATOR/STAIR TOWER IN ACCORDANCE TO STAGING PLANS. TOWER STRUCTURE WILL COME ON SITE SHOP ASSEMBLED IN SECTIONS TO GREATEST EXTENT POSSIBLE. ERECTION OF TOWER SECTIONS WILL REQUIRE A TRACK CLOSURE WHICH REQUIRES THE CONTRACTOR TO COORDINATE WITH AMTRAK.

2. AFTER TOWER SECTIONS ARE SET, INSTALL INTERMEDIATE FRAMING AND STAIR STRINGERS. WHERE POSSIBLE USE SMALL CRANE OR LIFT TO REDUCE IMPACT ON RAIL SERVICE AND TRACK CLOSURES. IF DESIRED, SET TOP MEMBERS FIRST AND UTILIZE RIGGING AND HOISTS OFF MEMBERS TO SET LOWER FRAME SECTIONS. PROTECT SECTIONS FROM DAMAGE.

3. CONTRACTOR TO VERIFY IN FIELD THE DISTANCES BETWEEN THE PEDESTRIAN BRIDGE BEARING PAD LOCATIONS PRIOR TO BEARING NEW BRIDGE ONTO TOWER STEEL FRAME STRUCTURES.

PEDESTRIAN BRIDGE OVERPASS CONSTRUCTION

1. ERECTION OF PEDESTRIAN BRIDGE WILL REQUIRE TRACK CLOSURE(S). CONTRACTOR TO COORDINATE WITH RAIL AUTHORITIES. CONTRACTOR NEEDS TO BE PREPARED TO RAISE, SET AND SECURE THE BRIDGE SECTION IN A LIMITED TIME FRAME, LIKELY 12AM-4AM ON A WEEKEND.

2. THE BRIDGE HAS BEEN DESIGNED FOR EACH SIDE OF THE TRUSS TO BE SHOP FABRICATED IN ONE (1) SECTION AND THEN DELIVERED TO SITE. FLOOR CROSS BRACING AND ROOF RAFTER FRAMING SHALL BE FIELD INSTALLED AS SHOWN ON PLANS. THE CONTRACTOR IS ALLOWED TO SUBMIT ALTERNATE BOLTED CONNECTIONS TO THE ENGINEER FOR APPROVAL. ASSEMBLE BRIDGE ON GROUND (IN AREA SHOWN ON PLAN) TO PREPARE FOR HOISTING, RAISING AND SETTING IN PLACE.

3. BRIDGE SECTION IS TO BE RAISED WITH FLOOR SLAB METAL DECK INSTALLED, PREPPED AND READY FOR CONCRETE PLACEMENT AFTER ERECTION.

4. BRIDGE SECTION IS TO HAVE A TEMPORARY PLYWOOD COVERING INSTALLED ON THE OUTSIDE WALLS. PLYWOOD IS TO ENCLOSE THE BRIDGE AREA SO THAT WORK CAN PROCEED ON THE INTERIOR FINISHES AND WINDOW SYSTEM AFTER THE BRIDGE SECTION HAS BEEN SET AND SECURED, SO THAT ADDITIONAL RAIL CLOSURES CAN BE AVOIDED. CARE MUST BE TAKEN AS TO NOT DAMAGE THE BRIDGE MEMBERS OR FINISH WITH THE TEMPORARY PLYWOOD COVERING.

5. PEDESTRIAN BRIDGE ROOF FRAMING, STEEL ROOF DECK AND ELECTRICAL CONDUITS ARE TO BE DELIVERED TO SITE AND INSTALLED IN STAGING AREA PRIOR TO LIFTING IT IN PLACE.

6. ERECTION OF PEDESTRIAN BRIDGE TO BE PERFORMED WITH ALL TRACKS OUT OF SERVICE (TO BE COORDINATED WITH AMTRAK).

7. CRANE TO BE SET UP AND PREPARED IN POSITION. HOOK ONTO BRIDGE STRUCTURE USING FOUR-LEG BRIDLE. NOTE, LIFTING SEQUENCE TO BE PROGRAMMED IN ADVANCE ON THE ON-BOARD COMPUTER. CONTRACTOR SHALL POSITION PERSONNEL TO CONTROL THE POSITION, SWING AND ROTATION OF THE BRIDGE THROUGHOUT THE ENTIRE LIFTING PROCEDURE.

8. RAISE THE PEDESTRIAN BRIDGE SO THAT THE UNDERSIDE OF THE BRIDGE STRUCTURE CLEARS THE TOP OF THE STAIR/TOWER FRAMING.

9. LOWER THE STRUCTURE ONTO THE END BEARINGS AND SECURE USING ANCHOR BOLTS BEFORE RELEASING THE LOAD.

10. ALL BEARING POINTS MUST BE MADE SECURE PRIOR TO RELEASE OF TRACK OUTAGE.

WRAP UP AND COMPLETE CONSTRUCTION

1. COMPLETE THE INSTALLATION AND RELATED ELECTRICAL WORK FOR THE ELEVATORS, SITE LIGHTING, PLATFORM LIGHTING, AND CANOPY LIGHTING.

2. COMPLETE THE GLAZING AND ALL RELATED FINISH WORK FOR THE PEDESTRIAN BRIDGE AND ELEVATOR SYSTEMS.

3. COMPLETE THE PUNCH LIST WORK.

4. REMOVE THE TEMPORARY CONSTRUCTION FACILITIES. CLEAN UP THE SITE AND PREPARE FOR OWNER ACCEPTANCE AND PUBLIC USE OF THE NEW TRAIN FACILITY.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...600.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT DONALD K. STANLEY No. 12778 LICENSED PROFESSIONAL ENGINEER

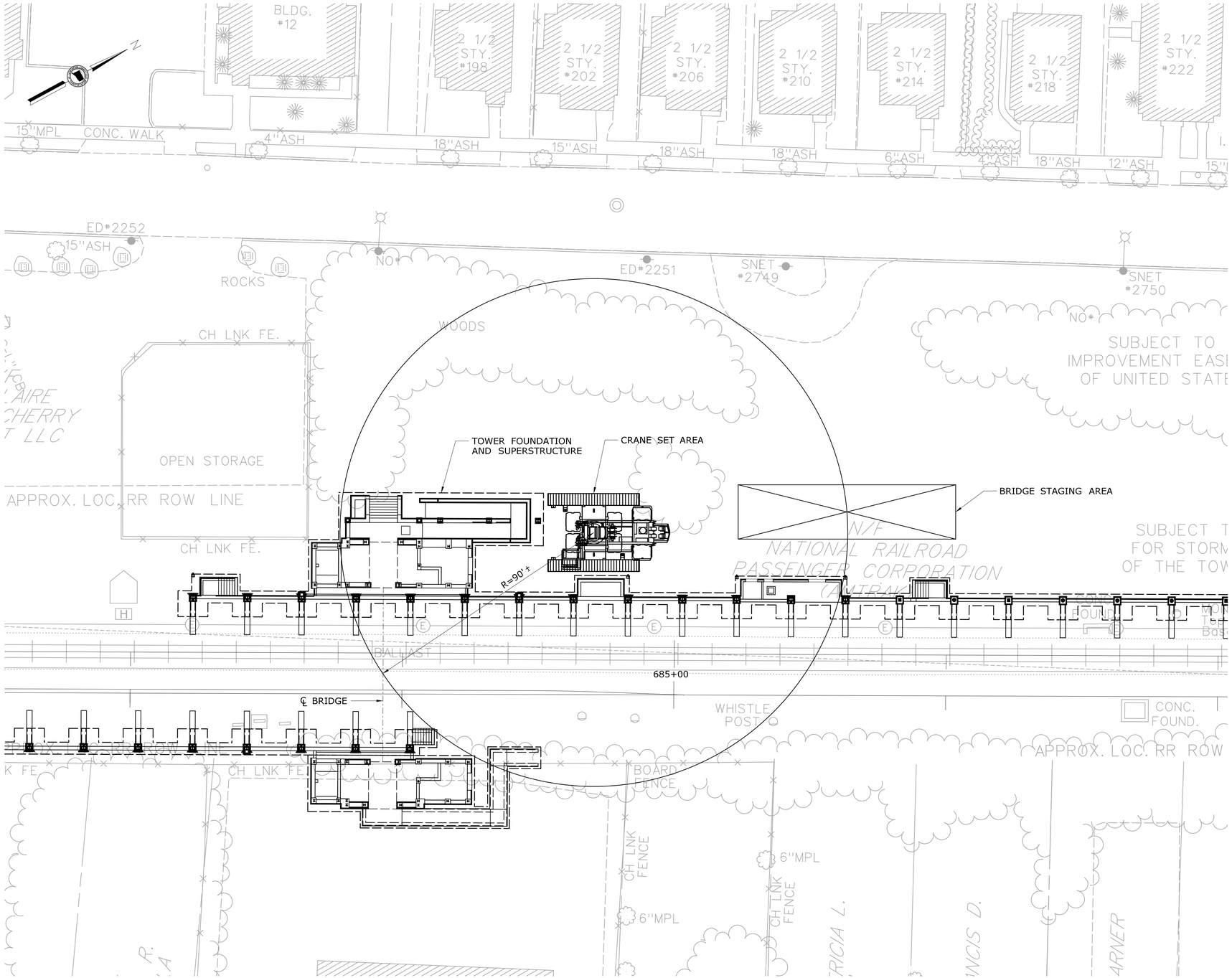
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

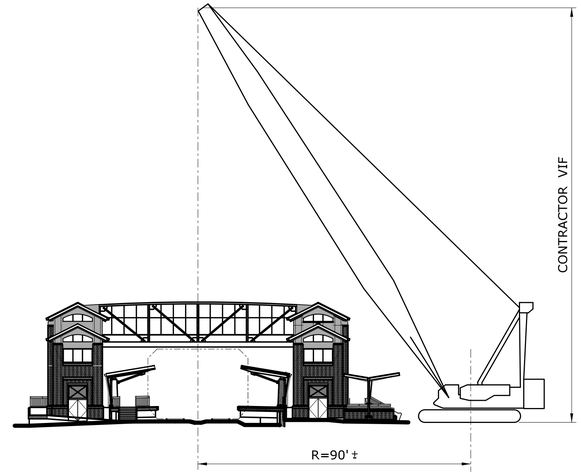
DRAWING TITLE: ERECTION SEQUENCE 1

PROJECT NO. 170-3155
DRAWING NO. FST-600
SHEET NO. 04.12.057



NOTES:

1. PEDESTRIAN BRIDGE ERECTION IS PERFORMED DURING STAGE 2 CONSTRUCTION, SEE STAGING PLANS FOR OVERALL CONSTRUCTION STAGING.
2. FOR ALL ERECTION SEQUENCE NOTES, SEE DRAWING NO. FST-600.



BRIDGE ERECTION ELEVATION
N.T.S.

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: C DONOHUE
CHECKED BY: H BUI
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...601.dgn

SIGNATURE/ BLOCK:

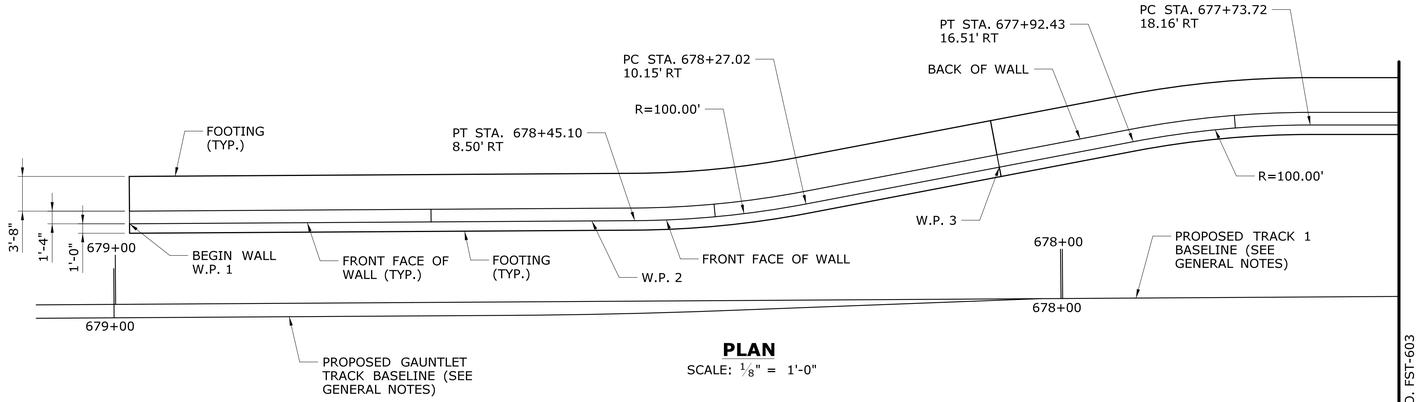
TranSystems
530 PRESTON AVENUE
MERIDEN, CT 06450

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**

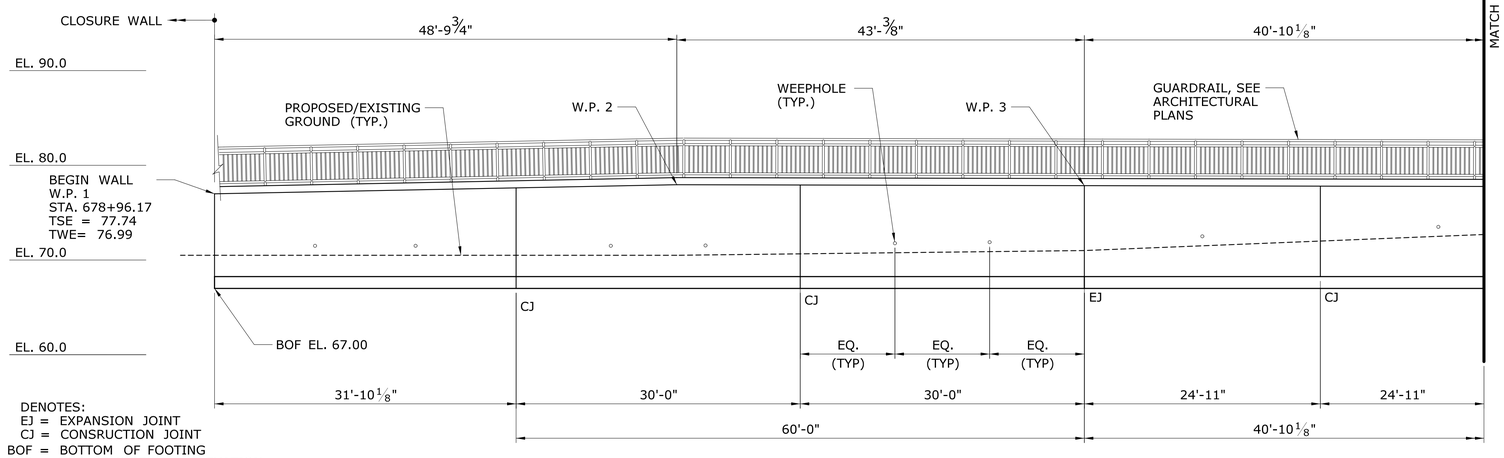
DRAWING TITLE: **ERECTION SEQUENCE 2**

PROJECT NO. **170-3155**
DRAWING NO. **FST-601**
SHEET NO. **04.12.058**



PLAN
SCALE: 1/8" = 1'-0"

MATCH LINE - SEE DRAWING NO. FST-603



DENOTES:
EJ = EXPANSION JOINT
CJ = CONSRUCTION JOINT
BOF = BOTTOM OF FOOTING
TSE = TOP OF SIDEWALK ELEVATION
TWE = TOP OF WALL ELEVATION

PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated January 2013, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003) with revisions dated February 2011.

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete Based on f'c = 3000 psi.

Reinforcement
(ASTM A615 Grade 60) Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Load and Resistance Factor Design Specification.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 4,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

STATION OFFSETS: Station and offsets shown on these plans are taken from the proposed track 1 baseline.

TRACK BASELINES: The baselines of the proposed tracks are by others and being constructed under a separate state project. They are shown here for informational purposes only and are in no way warranted to indicate the as-built conditions in the field. The contractor shall verify the location of the proposed tracks via a field survey prior to the start of platform construction and shall notify the engineer of any discrepancies. At all times during construction of the platform, the contractor shall maintain the horizontal and verical offsets as indicated in the contract documents.

RETAINING WALL QUANTITIES

ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - EARTH (COMPLETE)	C.Y.	690
PERVIOUS STRUCTURE BACKFILL	C.Y.	525
DAMPPROOFING	S.Y.	475
CLASS "A" CONCRETE	C.Y.	265
DEFORMED STEEL BARS	LB.	25,000
COMPACTED GRANULAR FILL	C.Y.	120
2'X2'X2' BAGGED STONE	C.F.	144
GUARDRAIL	L.F.	204
CHAIN LINK FENCE	L.F.	88

MAXIMUM DESIGN FOUNDATION PRESSURE

LIMIT STATE	MAXIMUM DESIGN FOUNDATION PRESSURE
STRENGTH I	3.31 KSF
SERVICE I	2.25 KSF

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE		TOP OF WALL ELEVATION
			NORTHING	EASTING	
1	678+96.17	8.50'	728464.345	979883.669	76.99
2	678+49.70	8.50'	728418.381	979865.669	77.95
3	678+6.58	13.91'	728377.608	979852.888	77.85

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Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **D. PEKAROVIC**
CHECKED BY: **K. TURSCHMAN**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..148..._07..FST..._602.dgN

SIGNATURE/ BLOCK:
Michael Baker Engineering, Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

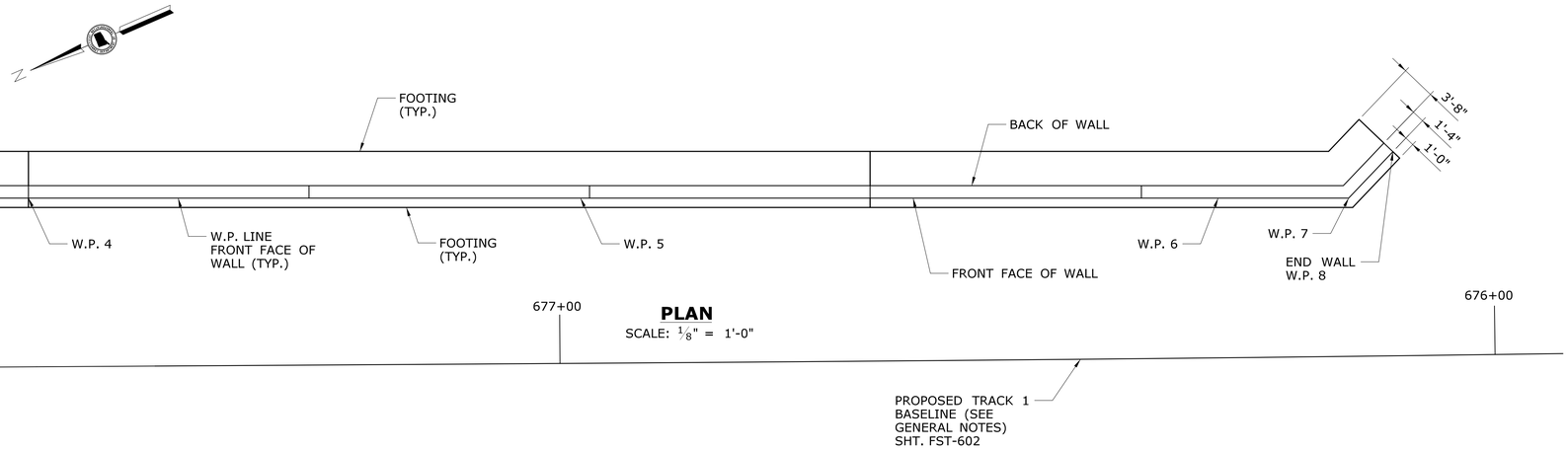
PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **WALLINGFORD**
DRAWING TITLE: **RETAINING WALL**

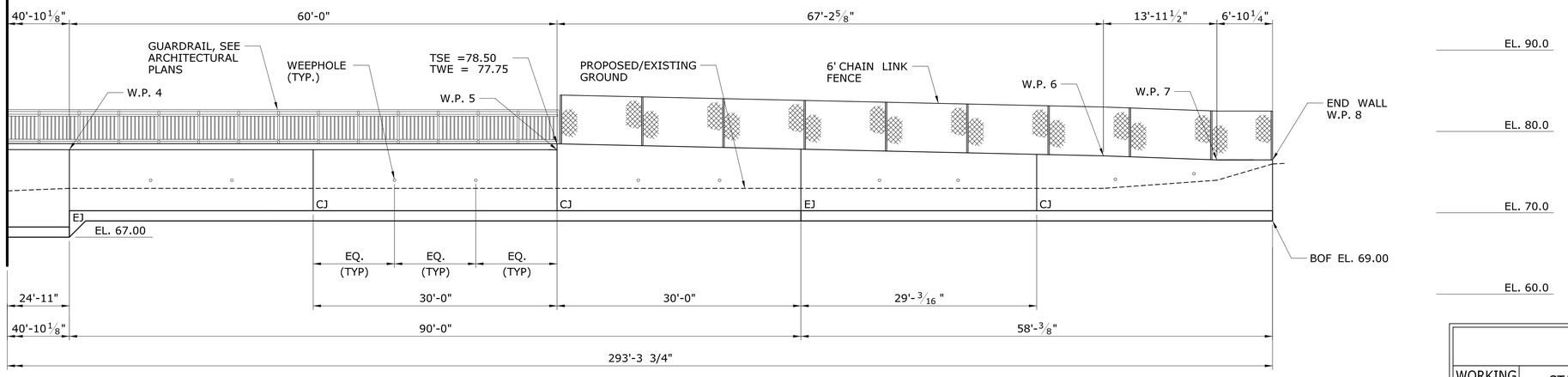
PROJECT NO. **170-3155**
DRAWING NO. **FST-602**
SHEET NO. **04.12.059**

GENERAL NOTES:

SEE DWG. NO. FST-602 FOR GENERAL NOTES.



PLAN
SCALE: 1/8" = 1'-0"



PLAN
SCALE: 1/8" = 1'-0"

DENOTES:
EJ = EXPANSION JOINT
CJ = CONSRUCTION JOINT
BOF = BOTTOM OF FOOTING
TSE = TOP OF SIDEWALK ELEVATION
TWE = TOP OF WALL ELEVATION

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE		TOP OF WALL ELEVATION
			NORTHING	EASTING	
4	677+56.72	18.05'	728330.060	979837.296	77.75
5	676+97.66	17.68'	728275.816	979813.979	77.75
6	676+29.43	17.09'	728213.182	979787.054	76.99
7	676+15.45	16.93'	728200.358	979781.542	76.50
8	676+10.62	21.84'	728194.049	979784.236	76.50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/28/2014

DESIGNER/DRAFTER: **D. PEKAROVIC**
CHECKED BY: **K. TURSCHMAN**
SCALE AS NOTED

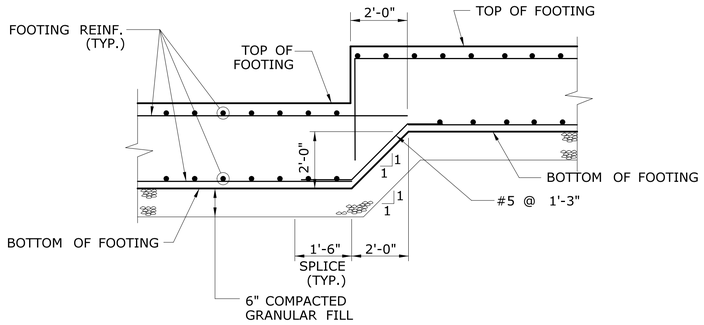
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: ...\FA_CGR_CPS_0170-2296_148_-_07_FST_-_603.dgn

SIGNATURE/ BLOCK:
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

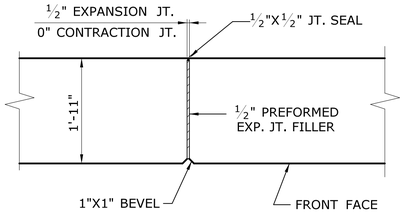
TOWN: **WALLINGFORD**
DRAWING TITLE: **RETAINING WALL**

PROJECT NO. **170-3155**
DRAWING NO. **FST-603**
SHEET NO. **04.12.060**



STEPPED FOOTING DETAIL - 2'-0"

SCALE: 3/8"=1'-0"



JOINT DETAIL

N.T.S.

NOTES:

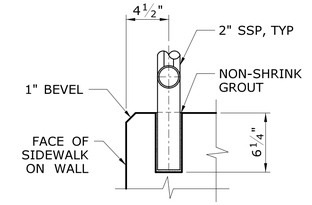
JOINTS

JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF WALL.

REINFORCEMENT

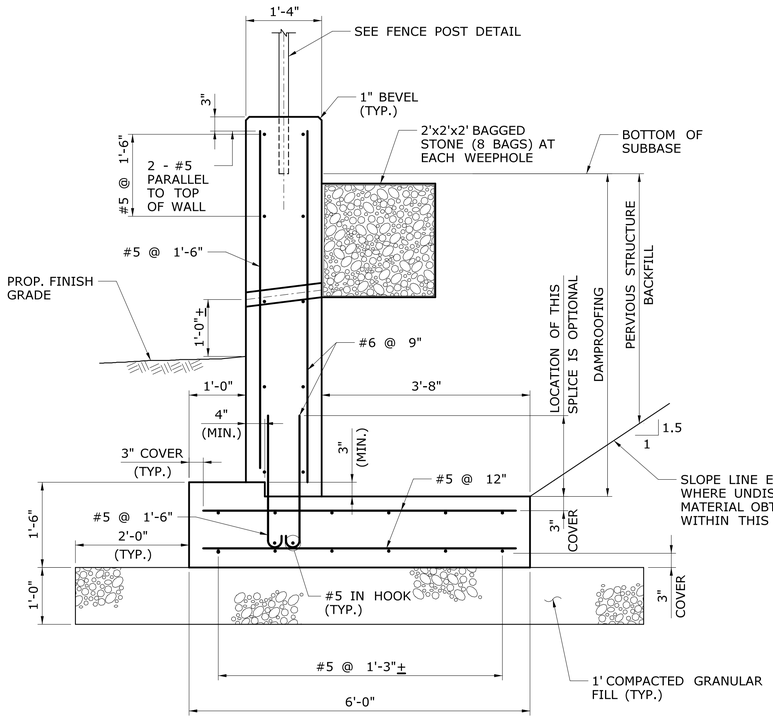
NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINTS.

REINFORCEMENT SHALL PASS THROUGH CONSTRUCTION JOINTS.



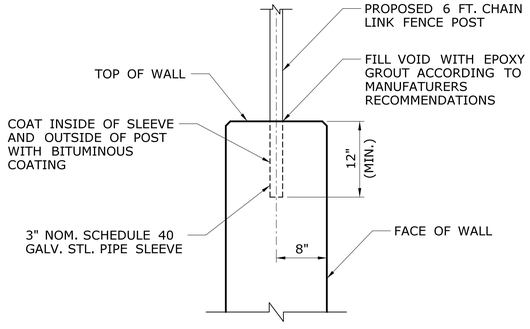
GUARDRAIL POST DETAIL

SCALE: 1 1/2"=1'-0"



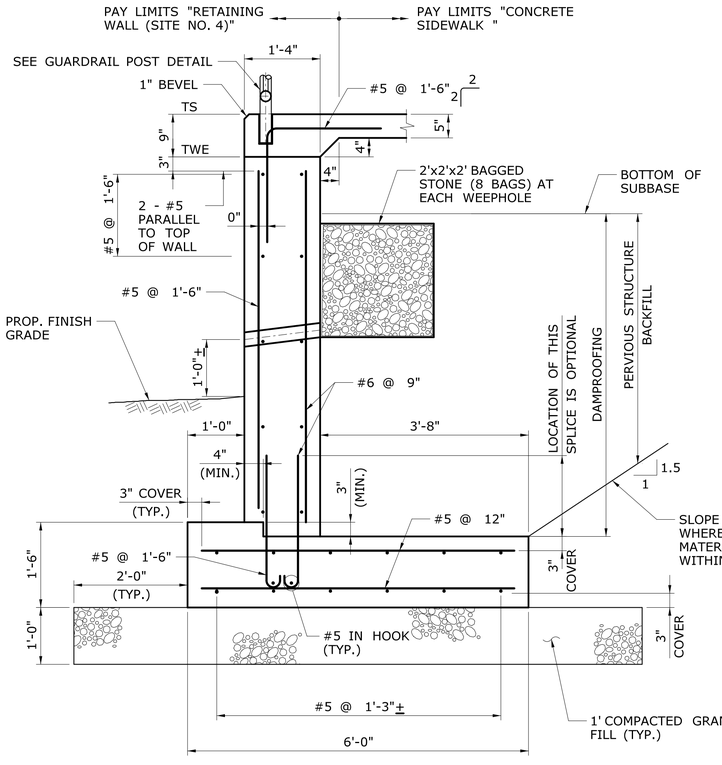
TYPICAL RETAINING WALL SECTION WITH CHAIN LINK FENCE

SCALE: 3/4"=1'-0"



FENCE POST DETAIL

SCALE: 1"=1'-0"



TYPICAL RETAINING WALL SECTION WITH GUARDRAIL

SCALE: 3/4"=1'-0"

DENOTES:
TSE = TOP OF SLAB/SIDEWALK ELEVATION
TWE = TOP OF WALL ELEVATION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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CHECKED BY: K. TURSCHMAN
SCALE AS NOTED

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Filename: ...\FA..CGR..CPS..0170-2296..148...07..FST...604.dgn

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PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: WALLINGFORD

DRAWING TITLE: RETAINING WALL DETAILS 1

PROJECT NO. 170-3155
DRAWING NO. FST-604
SHEET NO. 04.12.061